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Oil, Paint and Drug Reporter

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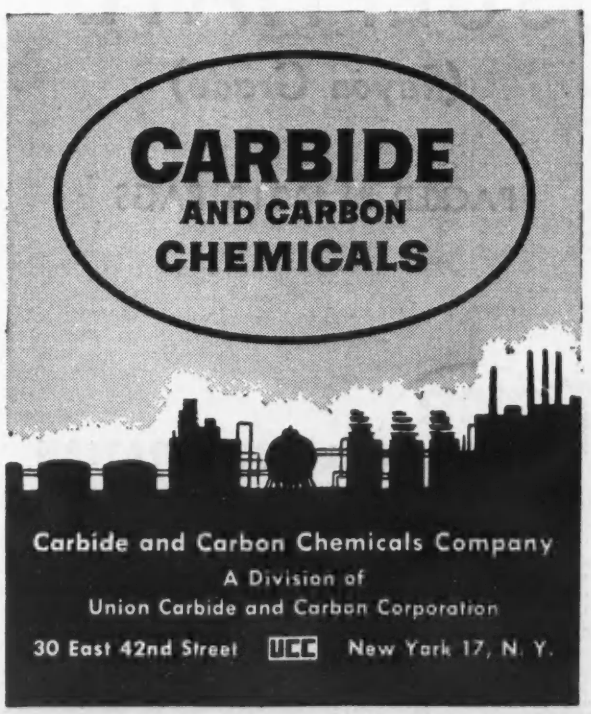

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US Will Buy at Market Price for Its Stockpile

A new policy on buying for the national stockpile was put into effect last week by the Office of Defense Mobilization, as ODM permitted the General Services Administration to make purchases at the market price instead of imposing a ceiling on such prices.

The new policy was disclosed by ODM director Arthur Fleming in modifying an earlier directive to GSA relative to purchases of lead and zinc for the stockpile. Mr. Fleming stated that the new directive, which is to go to the GSA next month concerning stockpile purchasing in the new fiscal year, will contain the new policy on prices. "As far as I am concerned," Mr. Fleming stated, "whatever we authorize GSA to buy, they are to buy at the market."

Source of Metals Confusion

When ODM issued its lead and zinc directive to GSA earlier this month, it contained a clause that lead purchases must be made at less than 14 cents a pound and zinc purchases at less than 13 cents a pound. These ceilings were not revealed, however, until last week when Mr. Fleming announced that the lead and zinc directive was being modified to allow purchases at the market and that this policy would prevail on all other purchases.

This disclosure immediately cleared up the confusion that had developed out of lead and zinc purchasing operations when GSA rejected lead offerings of 14¼ cents a pound and later at 14 cents a pound shortly after ODM had announced that the government would resume buying lead and zinc for the stockpile.

In a brief announcement explaining the reason for the lead tender, ODM said that "when GSA went into the market to purchase lead it was already above the ceiling price." Mr. Fleming explained further that the original directive authorized GSA to purchase lead "under 14 cents a pound." No difficulty was encountered in connection with zinc purchases because the directive authorized purchases at "under 13 cents" and offers made to the government were at 11 cents a pound.

"From here on out, GSA will buy at the market," Mr. Fleming stated. "I think the other policy was a mistake."

Copper Duty Suspension Sanctioned by Senate Unit

The senate finance committee last week voted to extend the suspension of import duties on copper for another year until June 30, 1955. The present suspension expires at the end of this month.

Action was taken by the committee in giving its approval to H. R. 7709. As passed by the house earlier this year, the bill proposed to continue the suspension for two years, but the finance committee amended it to reduce the time period to a single year.

The committee also voted a favorable report on H. R. 222 to suspend duties on imports of crude bauxite for two years, and adopted an amendment which would include calcined bauxite within the scope of the extension. The bill also passed the house previously.

Citronella Oil Import Duty Is Given Increase by Mexico

The Department of Commerce stated last week that Mexican import duties applicable to classification No. 241.10—"essential oil of citronella weighing with the immediate container over five kilograms"—has been increased from 0.80 peso a gross kilogram and 10 percent advalorem, exclusive of the 25 percent general increase effective February 15, to 3 pesos a gross kilogram and 10 percent advalorem, effective May 22. This classification now is exempt from the 25 percent general duty increase of February 15.

BDSA Post to Kaiser Man

R. G. Boyd, on leave from his post as assistant general sales manager of Kaiser Aluminum & Chemical Sales, Inc., Chicago, has been named assistant administrator of the Business and Defense Services Administration. Mr. Boyd has been serving as director of the aluminum-magnesium division since March.

Butadiene Project Given Rapid Tax Amortization

Union Carbide & Carbon Corporation has been issued a tax amortization certificate covering an investment of $2,295,500 in facilities at Seadrift, Tex., for the production of butadiene, it was announced last week by the Office of Defense Mobilization. The agency allowed 60 percent of the cost to be written off at the accelerated rate. The certificate had been filed August 15, 1952, and had been previously denied by the agency. No reason was given in the announcement for the reversed action.

The ODM announcement also contained the list of companies which had been awarded certificates for expanding nitrogen production (OPD, 5/31/54). It was also announced that United States Steel Corporation has been granted a certificate for new metallurgical coke facilities at Gary, Ind., costing $49,850,000. Of this amount, 85 percent was allowed for rapid tax write-off.

Tin Smelter's Continuance Favored by Group in House

The house banking and currency committee last week voted a favorable report on S. Con. Res. 79 expressing the sentiment of congress that the Texas City, Tex., tin smelter should be continued in operation in view of the international situation. The measure now goes to the house floor for passage.

At brief closed door hearings held just before action was taken by the committee, it was understood that the administration disclosed that it had reversed its views on closing down the plant and had no objections to congressional passage of the legislation.

The resolution came about because of the announced intentions of the government to shut down the plant at the end of this month. Rep. Clarke Thompson of Texas said after the hearing that he understood that the government has already taken steps to obtain additional supplies of tin to keep the plant operating in accordance with congressional wishes.

The resolution provides that the government should keep the plant going until June 30, 1955. In the meantime, a broad investigation is to be made by a joint committee of the senate into the entire matter of tin in relation to national defense with a view to passage of permanent legislation next year.

Tariff Legislation Making Headway

The house-approved Reed bill, H. R. 9474, to extend the life of the reciprocal trade agreements act for another year unchanged last week was well on its way towards final enactment, probably without change by the senate. At the same time, plans also were drawn up to speed enactment of the second customs simplification bill, H. R. 9476, which was introduced in the house only a week ago.

In a sudden reversal of plans, the senate leadership scheduled the trade agreements bill for consideration in the senate this week and predicted that it would be disposed of after only a few hours of debate. The customs simplification bill was set down for hearings by the ways and means committee beginning tomorrow and are to be concluded by Friday.

The senate finance committee cleared the way for floor action on the trade agreements bill by voting its approval of the measure June 15 at a brief executive committee session. The committee rejected suggestions that it hold hearings on the legislation before sending it to the senate for passage. The committee vote approving the bill was not announced, but chairman Eugene Millikin of Colorado said it was by a substantial majority.

Shortly after the committee action, the senate leadership scheduled floor action on the bill to follow passage of the tax revision measure which still has to be reported. But it was rescheduled for this week after Sen. Walter George of Georgia, ranking Democratic member of the committee, disclosed that he would not join with a group of other Democratic colleagues in an attempt to amend the bill to provide for a three-year extension with new authority to lower tariffs as recommended earlier by President Eisenhower.

Sen. Albert Gore of Tennessee is leading the move to amend the house-approved bill and has received the support of a number of other Democrats, but Sen. George's refusal to go along with the move is expected to bring about its defeat. At least the Republican leadership is confident that this will be the result.

Copper Industry Report Being Readied by BDSA

The copper division of the Business and Defense Services Administration is preparing a comprehensive quarterly report containing data on all phases of the copper industry, it was revealed at a conference of government officials and copper industry executives. The first issue of the report, which is being financed by producers of brass and bronze ingots, is expected to be published sometime in August. All segments of the copper industry were represented at the parley, which was called to review trade problems.

Peppermint Acreage Down As Spearmint Again Higher

Acreages devoted to peppermint in the principal growing areas of the country have declined slightly this year under that of 1953, but the area sown to spearmint has again increased, according to the Department of Agriculture in its June crop report based on June 1 conditions.

Peppermint acreage is estimated at 36,400 acres, 3 percent less than the 37,400 acres for 1953 and 18 percent below the four-year average of 44,600 acres. Compared with last year, increases in Indiana and Wisconsin are more than offset by decreases in Michigan, Oregon and Washington. The greatest decrease in the Oregon acreage is reported in Columbia County, with smaller decreases in most of the Willamette Valley Counties. There is some increase in acreage in eastern Washington but rust is forcing out mint production in the western part of that state.

Spearmint acreage is estimated at 21,300 acres, 13 percent more than the 18,850 acres for 1953 and 43 percent above the four-year average of 14,860 acres. Increases are reported in all three spearmint producing states — Indiana, Michigan and Washington.

The state totals are as follows:—

	1953	1954
	(Acres)	
Peppermint—		
Indiana	7,000	8,000
Michigan	7,400	7,000
Wisconsin	2,000	2,600
Oregon	14,000	12,000
Washington	7,000	6,800
Total	37,400	36,400
Spearmint—		
Indiana	9,600	11,000
Michigan	7,800	8,200
Washington	1,450	2,100
Total	18,850	21,300

Fertilizer Industry's Path To FOA Business Cleared

A modification of the government's offshore buying policies which may make it less difficult for domestic suppliers of fertilizer to obtain some of the foreign fertilizer business of the Foreign Operations Administration was adopted last week by the house foreign affairs committee now drafting a new foreign aid authorization bill.

A provision was included in the measure outlining various tests that should bar the use of foreign aid funds for contracts for overseas production. It stated that funds voted for offshore procurement were not to be used if the President found such procurement would have adverse effects upon the economy of the United States, with special reference to any areas of labor surplus or upon the industrial mobilization base, which outweigh the strategic and logistic advantages to the United States of procurement abroad.

Tung Nut Props Voted In Rebuff of President

Recommendations of President Eisenhower that congress repeal the existing legal requirement that the Department of Agriculture be compelled to support the price of tung nuts were rejected last week by the senate committee on agriculture now working on the long-range farm bill.

Sen. George Aiken of Vermont, chairman of the committee, announced June 16 that the committee had voted to retain mandatory price supports for both tung nuts and honey between 60 and 90 percent of parity as now provided by law. He said the committee's decision is tentative, however, and is subject to a final vote at a later date.

House Committee Deliberations

The house committee on agriculture, which is considering legislation similar to that before the senate committee, has taken no action as yet on the question of tung supports. However, in view of its earlier action of voting to maintain the 90 percent mandatory supports under the basic commodities despite strong administration opposition, there is little expectation that the committee will repeal the mandatory price supports for tung nuts.

As further evidence of the unwillingness of the house committee to be swayed by administration appeals, the committee last week voted to modify the present dairy price support program of Secretary of Agriculture Benson by raising the support level from 75 percent to 80 percent for milk and milk products, beginning September 1 and continuing April 1, 1955. It also voted to broaden the base of the parity formula so that additional criteria can be considered in determining future price supports for the dairy industry.

In another phase of the overall farm aid program, the house last week passed S. 2475 authorizing the use of over $1,000,000,000 of farm products during the next three years in sales abroad, to be paid in the local currencies of other nations, or to be bartered for strategic materials needed by this country. Upwards of $300,000,000 of surplus products could also be given away to friendly governments for famine or other urgent relief requirements.

Financing Non-CCC Exports

During floor consideration of the bill, the house approved a number of amendments, including provisions which will permit the Commodity Credit Corporation to use its funds in financing the export of commodities not owned by CCC, and to provide that payments for commodities may consist of strategic materials, services or foreign currencies.

In order not to interfere with the stockpile program of purchasing domestically-produced items for the stockpile, a provision was adopted to set up a supplemental stockpile made up of the strategic materials acquired through the operations of the farm surplus disposal program. Release of the materials from the stockpile would be subject to the same restrictions now imposed on materials in the national stockpile.

CCC Flaxseed, Linseed Oil Pricing Policy Is Continued

The Department of Agriculture announced last week that the Commodity Credit Corporation is continuing through October 31 its present pricing policy with respect to domestic sales of CCC stocks of flaxseed and raw linseed oil. In earlier announcements, prospective buyers had been assured that no change would be made prior to August 1 in the method of pricing these commodities for domestic sale.

Under the three-month extension of the present pricing method, prospective buyers are given assurance that during the period ending October 31 CCC will (1) offer its stocks of storable flaxseed for domestic sale at not less than the market price or the 1953 support price, whichever is higher, and (2) offer its stock of raw linseed oil for domestic sale at not less than the market price or the equivalent of the 1953 support price for flaxseed, whichever is higher.

FTC Chairman Urges Voluntary Compliance

A call for compliance, particularly of a voluntary nature, with Federal Trade Commission decisions was issued by chairman Edward F. Howrey in an address before the spring luncheon meeting of the Drug, Chemical and Allied Trades section of the New York Board of Trade at the Commodore hotel, June 17. Mr. Howrey stressed the fact that the commission seeks compliance, and not punishment.

"In some instances," he said, "compliance can be obtained only through formal hearings leading to cease and desist orders. In many cases, however, voluntary compliance should be obtained through informal procedures, through investigation and consultation." To this end, he noted that the commission was establishing a bureau of consultation with a three-fold purpose:

Aims of Consultation Bureau

"(1) To act in a cooperative and consultative capacity to business, particularly small business.

"(2) To give informal advice (but not written advisory opinions) on all kinds of matters involving the laws administered by the commission.

"(3) To seek voluntary compliance with such laws by means of conferences, stipulations, trade practice rules, and other types of informal procedures."

The establishment of the bureau of consultation is one of the features of a reorganization of the commission, slated to take effect July 1. The purpose of the reorganization, according to Mr. Howrey, is to "increase greatly our capacity and output and to eliminate delays in our procedures. It is an effort to strengthen our organization and streamline our procedures so that we can do more effective work."

Provided for in the reorganization is a division of small business, to be established as part of the consultation bureau. The purpose of the small business unit will be to "advise small businessmen on laws administered by the commission; explain to small businessmen the method of initiating complaints they may wish to make regarding practices of their competitors, and inform small businessmen of the status of investigations in which they are interested," Mr. Howrey explained. By way of further amplification, he stated, "Our objective . . . is to help keep small business strong and aggressive—to protect it from unfair competition and to eliminate all inequitable handicaps."

In pointing up the progress of the commission since the beginning of his tenure of office, Mr. Howrey noted that the commission has:—(1) Inaugurated an inte-

—Continued on page 74

Texas-New York Pipeline Granted Fast Tax Write-Off

The Office of Defense Mobilization last week granted a certificate of necessity to the American Pipeline Company, New York, for construction of another "big inch" petroleum pipeline from Texas to the New York area. The line is designed to move 500,000 barrels of oil daily in an emergency.

Cost of the project is estimated at $1,170,000,000 and ODM authorized 40 percent to be amortized for tax purposes at an accelerated rate. Ordinarily, this authorization has extended to only 25 percent of the cost of pipelines, but officials explained that the larger percentage was allowed because of the national defense nature of the line.

The line will extend from the Houston-Beaumont area of Texas to Newark, N. J., with twenty-six inch pipe used from Texas to Louisville, Ky., and twenty-four inch pipe from Louisville to Newark. Normal operations of the line will move 250,000 barrels of petroleum products daily, but in the event of a national emergency the amount is to be doubled with half of the line's capacity reserved for national defense needs.

Construction is to start in forty-five days and the line will be completed and in operation next spring.

William Rand Giving Up His FOA Position on July 1

William M. Rand, who accepted the post of deputy director of the Foreign Operations Administration over a year ago following his retirement as president of Monsanto Chemical Company, St. Louis, Mo., submitted his resignation to President Eisenhower last week, to become effective July 1.

Contents of This Issue

Abbott Laboratories Opens Branch..... 58
ACS Eastern N. Y. Section Picks Surrey..... 41
ACS Iowa Section Medal to Dr. Wilhelm.... 40
AEC Allocates Fuel for Michigan Univ.... 42
Agriculture Dept. Awards Contract..... 61
Airco Canada Names Newburn Pres..... 4
Air Pollution Meeting Tomorrow in Chicago. 42
American Drug Buys Warner-Hudnut Stock. 4
Ammonia Via Cokeoven Gas Exolored..... 4
Askin Elected Head of AFCA's N. Y. Unit.. 40
ASTM Selects Mochel as President..... 7
Atlantic Refining Appoints Longman..... 48
BDSA Post to Kaiser Man..... 3
Benelux Countries Ease Import Curbs..... 68
Benzol Sought by Formosa..... 52
Blaw-Knox Offers Alcohol Process..... 5
Bristol-Myers Sales Post Filled..... 61
Burr Retires from duPont..... 68
Butadiene Project Gets Amortization..... 3
Calspray Affiliate Opens Installation..... 5
Candy Technologists Choose Officers..... 59
CCC Flaxseed, Linseed Pricing to Continue. 3
Chemical Exports Outstrips Imports..... 52
Chemical Safety Group to Meet Oct. 18-21.. 7
Chemical Specialities Selling Bulk Hormones 5
Citronella Oil Import Tax Boosted by Mexico 3
Copper Industry Report Being Readied..... 3
Copper Tax Suspension Voted by Senate Unit 3
Cyanamid Adds Rubber Accelerators Plant.. 5
Cyanamid Paper Chemicals Post to Cornell. 40
Dairy Import Rules Changes Made..... 75
Derderian Is Metal Hydrides Gen'l Mgr..... 7
Diamond Makes 5 Key Appointments..... 5
Dodge & Olcott Announces 3 Product Lines. 64
Dow Advances Stoesser..... 41
Drug Show to Feature Store Modernization.. 57
Enjay Names Brian Casey..... 67
Farming Goal Described by Benson..... 5
FDA Amends Antibiotic Rules..... 4
Fertilizer Trade's Path to FOE Cleared..... 3
FTC Chairman Urges Compliance..... 4
Fulton Bag Advances Two..... 40
Fumaryl Chloride Potentialities Given..... 52
General Tire Chooses P.A..... 5
Gen'l Electric Sets Up Plastics Dept. Units.. 67
Givaudan Has Flavors Publication Available. 64
Glidden Promotes Leedy..... 68
Import Permit Invalidation Announced..... 58
Ingram & Bell, Ltd., to Move..... 64
Interior Calls for Offshore Area Designation. 4
Jefferson Describes New Chemical..... 40
Kolseth Is Devoe Executive Vice-Pres..... 5
Labs Council Parley Slated..... 7
Lyon Recovering from Accident..... 64
Mac-Lac Company Elects McClintock Pres.. 5
'Maneb' Is Name Coined for Fungicide..... 44
Mann Has New Peptides..... 59
Merck Vice-Pres. Observes Anniversary..... 61
Mexican Gulf Ships Sulfur..... 5
Monsanto Fills Inorganic Chemicals Post.... 41
Naftone Names Martin..... 68
National Lead Opens Building..... 68
National Petroleum Council to Meet..... 7
NATO Asks US Military Building Bids..... 61
N.E. Chemical Club Golfs June 23..... 44
New England PVLA Sets Outing..... 68
Ninol Labs Completes Sulfonates Facility.. 5
N. Y. Purchasing Agents Pick MacKenzie... 52
Pacific Guano Appoints Dr. Bahme..... 44
Parke, Davis Building Detroit Sales Branch 57
Peppermint Acreage Lower..... 3
Pesticides 1953 Production Reported Off.... 5
Pharmaceutical Directory Published for India 58
Pharmaceutical Imports, Thailand, Shown.. 58
Phila. PVLA Picks President for 1954-1955.. 75
Plastics in Hous. Dsgn. to Be Studied at MIT 52
Plastics Volume Seen Doubling in Four Years 7
Prof. Brunius Heads Vitamin Group..... 59
Pyridine-N-Oxide Offered by Reilly..... 5
Rand, William, Giving Up FOA Position.... 4
Rauwolfia Embargo Eased by India..... 7
Reagents Publication Is Offered by Cyanamid 42
Rhodia Establishes 'Alamask' Service Section 64
Rubber Plant Bidders Hurdle Barrier..... 5
SAACI Plans Golf Outing June 29..... 57
Senate Would Limit Foreign Fuel Use..... 4
Sherwin-William Has Leaded Zinc Oxide. 67
SOCMA Appoints P. R. Chief..... 5
Soybean Ass'n Meets with Processors..... 7
Spencer Kellogg Appoints..... 68
Steel Shipping Barrels Output: April..... 58
Tariff Legislation Making Headway..... 3
Texas-New York Pipeline Gets Tax Aid.... 4
Tin Smelter Continuance Favored..... 3
Tung Nut Supports Voted..... 3
US Revenue Returns: April..... 59
US Will Buy at Market for Stockpile..... 3
Wedge Is Ansul Development Manager..... 57
Wellman Is Carbide 'Crag' Sales Chief..... 41
Western N. Y. Paint Technicians Hold Outing 67
Wyeth Lab Building Started..... 61
Whale Oil Output Increase Expected..... 7

Market Reports

(See Page 9)

General Features

Advertisers Index..... 75
Association Meeting Dates..... 7
Bids Wanted..... 61
Book Review..... 36
Classified Advertisements..... 74
Consulting Chemists and Engineers..... 49
Coal Chemicals Output..... 50
Crude Oil Stocks..... 45
Current Market Quotations..... 9
Editorials..... 36
Imports..... 60
Imports Detained..... 62
Obituaries..... 49
OPD Price Index..... 4
Washington Talks It Over..... 36
Trade Briefs..... 51, 58, 63, 67, 74

Interior Asks Designation Of Leasable Offshore Areas

Secretary of the Interior Douglas McKay has announced the Bureau of Land Management's call for interested persons to designate areas they would like to have offered for oil and gas leasing in the outer continental shelf off the states of Louisiana and Texas.

Director Edward Woozley of the Bureau of Land Management said the call for nominations will be followed promptly by an offer of leasing blocks for lease by competitive bidding. The closing date for receipt of nominations has been set for August 3 for the areas off Louisiana, and September 3 for the areas off Texas.

Offers for competitive bidding for leases have been tentatively set for October 13 for areas off Louisiana, and November 9 for areas off Texas. Notice of the call for bids which will state the conditions and terms for leasing will be published in the *Federal Register*.

The nominations are to be submitted to the director, Bureau of Land Management, Washington 25, D. C., and copies are to be mailed to the Interior department office, attention oil and gas supervisor, Geological Survey, room 1503, Masonic Temple Bldg., New Orleans 12, La. Nominations must specify block numbers and names of areas but may designate properly described subdivisions rather than entire blocks if desired.

American Drug Buys Nearly Half of Warner-Hudnut Stock

Elmer Bobst, chairman of the board of Warner-Hudnut, Inc., revealed last week that American Drug Products, Inc., has contracted to purchase 558,411 shares, representing 44.5 percent, of the common stock of Warner-Hudnut from the trustees of the estate of Gustavus A. Pfeiffer. American Drug Products has been organized by F. Eberstadt & Co. and Lazard Freres & Co. and associates. In addition to Ferdinand Eberstadt, who is a member of the board, three other representatives of the purchasers will join the Warner-Hudnut board of directors.

FDA Amends Antibiotic Certification Regulations

Amendments were made to the regulations covering the certification of antibiotic drugs by the Food and Drug Administration last week to extend the life potency date for certain of the products certified by the agency.

The expiration date for penicillin with vasco-constrictor was extended from eighteen months to twenty-four months from the date of certification; the potency period for chlorotetracycline hydrochloride ointment was extended from twenty-four months to thirty-six months; and the potency date for bacitracin-neomycin ointment was extended from twelve months to eighteen months or twenty-four months, if it is shown to the satisfaction of FDA by the person applying for certification that his product is stable for such periods of time.

Ammonia Via Cokeoven Gas Being Explored by U.S. Steel

Clifford E. Hood, president of the United States Steel Corporation, Pittsburgh, Pa., revealed last week that the company is well advanced in a study dealing with the production of ammonia from cokeoven gas. The objective of this study, he said, is to determine the most economical method of recovering hydrogen as well as other chemical components from this type of gas.

Possible locations for an installation of this kind would be Geneva, Utah, and Gary, Ind., which are the major points of production of cokeoven gas in United States Steel plants.

Airco Canada Picks Head

Air Reduction Canada, Ltd., Montreal, a division of Air Reduction Company, has named S. H. Newburn president. Mr. Newburn joined Air Reduction in 1936 and since that time has held various sales and management posts—from salesman at Cleveland, Ohio, to district sales manager in Detroit, Mich.

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Price Index Registers Gain

The overall OPD price index reversed its action of the previous week and rose during the period just past, moving up 0.19 point to stand at 106.95. Heading the markets registering gains was the oils, fats and waxes section. Copra, cocoa butter, linseed fatty acid and peanut meal moved up, as did No. 1 Brazillian castor and crude coconut oils. Reduced in this section were lard, linseed meal and tallow, together with fish and tung oil. The protective coatings market witnessed rises in Argentine casein and shellac, while reductions took place for litharge, orange mineral and lead monosilicates.

Price movements in the industrial organic chemicals group were all upward. Vinyl acetate monomer moved up 1 cent per pound across the board. Carbon tetrachloride was advanced ¼ cent per pound and perchloroethylene underwent certain price adjustments amounting to ¼ cent per pound. A decline in lead metal was the only price change in the heavy chemicals section. Sabadilla seed, activated and ground with lime, declined among agricultural chemicals. There were no other changes in this market. The textile and leather chemicals group was without price change.

Theobromine salts made a moderate advance. Other gains in the drugs and fine chemicals group were made in caffeine, natural camphor powder and natural Brazilian methol. Price patterns prevailing in the coal chemicals market remained firm. Petitgrain and sandalwood oils moved up among essential oils, aromatics and flavorings. Other gains in this section were made by cassia, cinnamon, ginger and poppy seed. Lowered were caraway seed, black pepper, Jamaican pimento, Dalmatian sage, celery seed and French thyme leaves. Petroleum derivatives were unchanged in price.

Prices Advanced

Acid, linseed fatty, ½c. per lb. (69).
Caffeine, 25c. per lb. (55).
  Citrated, 15c. per lb.
Camphor, nat., powd., 2c. per lb. (55).
Carbon tetrachloride, ¼c. per lb. (46).
Casein, Argentine, 2½c. per lb. (65).
Cassia, Batavia, all grades, ½c. per lb. (55).
Cinnamon, No. 2, 3c. per lb. (55).
  "0000," 2c. per lb.
Cocoa butter, 10c. per lb. (69).
Copra, $5.00 per ton (69).
Ginger, Jamaican, No. 2 and No. 3, 1c. per lb. (55).
  Nigerian split, 1c. per lb.
Menthol, nat., Brazilian, 25c. per lb. (55).
Oil, castor, No. 1, Brazilian, ¼c. per lb. (69).
  Coconut, crude, ⅝c. per lb. (55).
  Linseed, 1c. per lb. (69).
  Petitgrain, 10c. per lb. (62).
  Sandalwood, 25c. per lb. (62).
Peanut meal, 50c. per lb. (69).
Perchloroethylene, ¼c. per lb. (46).
Poppy seed, Argentine, 1c. per lb. (55).
  Dutch, 1¼c. per lb.
  Polish, ¾c. per lb.
  Turkish, ½c. per lb.
Shellac, lemon, No. 1, 8½c. per lb. (65).
  No. 2, 7½c. per lb.
  Superfine, 6½c. per lb.
  TN, 6½c. per lb.
Soybean meal, $5 per ton (69).
Theobromine, NF, 35c. per lb. (55).
  and sodium acetate, USP, 20c. per lb.
Sodio-salicylate, NF, 15c. per lb.
Vinyl acetate, monomer, 1c. per lb. (46).

Prices Reduced

Caraway seed, ½c. per lb. (55).
Celery seed, Indian, ½c. per lb. (55).
Lard, ⅜c. per lb. (69).
Lead metal, ¼c. per lb. (38).
Linseed meal, $2 per ton (69).
  monosilicate, 0.2c. per lb. (65).
  Red, 95% Pb_3O_4, ¼c. per lb.
  97% Pb_3O_4, ¼c. per lb.
  98% Pb_3O_4, ¼c. per lb.
Litharge, ¼c. per lb. (65).
Oil, fish, ref., ½c. per lb. (69).
  Peanut, crude, ⅛c. per lb. (69).
  ref., ⅛c. per lb.
  Tung, ⅛c. per lb. (69).
Orange mineral, ¼c. per lb. (65).
Pepper, black, Malabar, 2c. per lb. (55).
Pimento, Jamaica, 1c. per lb. (55).
Sabadilla seed, activated and ground with lime, 5c. per lb. (43).
Sage, Dalmatian, 2c. per lb. (55).
Tallow, ⅛c. per lb. (69).
Thyme leaves, French, 1c. per lb. (55).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100—1949 average)

June 19, 1954	June 11, 1954	June 19, 1953
106.95	106.76	106.11

Senate Measure Would Limit Military Use of Foreign Fuels

Sen. Harley Kilgore of West Virginia introduced a bill, S. 3603, in the senate last week to limit the procurement of fuels of foreign origin by the armed services for use within the United States. The bill is another in a long series of proposals offered by the coal mining states in the interest of curbing imports of residual fuel oil into the United States so as to force industries to burn coal.

Mr. Kilgore stated that in addition to safeguarding the fuel potential for military facilities and for industries upon which the armed services depend for supplies and equipment, this bill will have a tendency to keep in line the heavy fuel costs our Defense department incurs in its operations.

Farming Goal Termed Useful, Lasting Plenty

The goal of American agriculture was summed up as one of "useful, permanent abundance" by Secretary of Agriculture Ezra Taft Benson in an address before the National Fertilizer Association at White Sulphur Springs, W. Va., last week. Secretary Benson noted that to be useful, abundance must be marketed. He stated that that is the reason the present administration is focusing more attention on agricultural marketing than it has ever received before.

For abundance to be permanent we need to conserve and build our natural resources, the secretary pointed out, and to lay emphasis on farming efficiency, on balanced farming, on new technology, and on the research and education which help to make all these aims possible. It is in this way that we can safeguard farm prosperity, he maintained.

Resources Protection Urged

The secretary called for protection of the soil, water, range and forest resources of the United States, which he called the foundation blocks in the structure of our national economy. Although much progress has been made in conservation, he told NFA that we still have much more to do in this broad phase of our agriculture. "For example," Mr. Benson stated, "we have not, as yet, given soils research the emphasis that wisdom would seem to dictate. It is a shocking thing to realize that the total expenditure by government—federal and state—on soils research has been in recent years about the same as the cost of a B-36 bomber, and less than one-fourth the cost of a destroyer."

Citing the effect of erosion on the nation's farm lands, the secretary stated that about 30 percent of the cropland and 10 percent of the rangeland in the southern great plains had been damaged. "The total amount of cropland damaged, as of April 1, 1954, was about 11,500,000 acres. Rangeland damage amounted to over 5,000,000 acres. In addition, there were more than 8,000,000 acres of cropland and over 6,500,000 acres of rangeland that were in danger," he declared. The big needs in this area, in Mr. Benson's view, are for constant cover on the land and the retire-

—Continued on page 74

Mac-Lac Company Elects McClintock as Its President

The Mac-Lac Company, New York, has elected Donald E. McClintock president of the company. In addition to the presidency, Mr. McClintock will continue to serve as treasurer, which post he assumed last year. Prior to becoming treasurer, he was secretary of Mac-Lac for a number of his twenty-one years with the company.

The concern has also elected the following officers to serve with Mr. McClintock: — Executive vice-president, James W. Byrnes; vice-president, Charles F. O'Malley; assistant vice-president, Philip H. Harris, and secretary, Henry E. Blanchford.

Pyridine-N-Oxide Offered By Reilly Tar & Chemical

The first commercial semi-works production of pyridine-N-oxide and 4-picoline-N-oxide is now under way at Reilly Tar & Chemical Corporation, Indianapolis, Ind., according to Dr. F. E. Cislak, research and development director. These key intermediates are finding increasing use among chemists, it is stated, because they represent a major step toward the preparation of electrophilically substituted pyridines. Other oxide derivatives which Reilly will prepare if desired are 2,6-lutidine-N-oxide, 2,4,6-collidine-N-oxide, 2-picoline-N-oxide and 3-picoline-N-oxide.

Rubber Accelerators Unit Is Unveiled by Cyanamid Co.

A new rubber chemical accelerators plant which more than doubles present production has been opened by American Cyanamid Company at its Bound Brook, N. J., facility. The new plant is devoted exclusively to the production of "Nobs Special" and "Nobs No. 1" accelerators, both of which were developed by Cyanamid for use in reinforcing furnace blacks in natural rubber and GR-S.

"Washington Talks It Over," the weekly column of commentary by Ralph L. Cherry formerly found here, now appears on the editorial page, which in this issue is page 36.

Devoe Executive Vice-Pres.

J. Harold Kolseth has been elected executive vice-president of Devoe & Raynolds Company, New York. Mr. Kolseth had been vice-president in charge of all trade sales divisions and continues as a director of the company. In his new post, he will devote himself to Devoe's overall paint, lacquer and varnish manufacturing and merchandising activities.

Fatty Alcohol Process Made Available by Blaw-Knox Co.

Blaw-Knox Company, Pittsburgh, Pa., has announced that it is making available to US industry the Belgian SBA process for the production of fatty alcohol by continuous hydrogenation. In offering the process, for which it is the exclusive licensing agent, Blaw-Knox reported that the Belgian technic is currently operating successfully. Thus, data on yield and operating cost are based on actual operating experience.

Moreover, it was pointed out, pilot plant facilities are available for the testing of raw feed materials of domestic origin. The pilot plant, developed by Societe Belge de L'Azote et des Products Chimiques du Marly, is described as a simple but efficient unit, capable of continuous operation similar to that of full-scale plants. The pilot plant can process one barrel of fat or fatty acid per day and its results, such as yield and catalysts life, can be projected accurately to commercial operation, according to Blaw-Knox.

SOCMA Appoints P. R. Chief

Charles S. Zurhorst has been named information coordinator of the Synthetic Organic Chemical Manufacturers Association, Dr. Cary R. Wager, president of the association, announced last week. Mr. Zurhorst, former director of special public relations projects for the American Petoleum Institute, will headquarter in the SOCMA offices, 41 East 42nd street, New York.

Pesticides 1953 Production Reported Off by 15 Percent

Production of all pesticides and other organic agricultural chemicals in 1953 amounted to 356,000,000 pounds, a decrease of 15 percent from the 481,000,000 pounds reported for 1952, according to the Tariff Commission last week. Sales in 1953 amounted to 334,000,000 pounds valued at $119,000,000, compared with 331,000,000 pounds valued at $133,000,000 in 1952.

The estimates of the commission were contained in the ninth of a series of reports giving preliminary statistics on production and sales in 1953 of synthetic organic chemicals. The report also gave statistics on production and sales of pesticides by principle uses—fumigants, fungicides and seed disinfectants, herbicides and plant hormones, insecticides and soil conditioners.

The commission reported last year's production of cyclic pesticides and other cyclic chemicals in this group at 297,000,000 pounds, compared with 372,000,000 pounds in 1952, a decrease of 20 percent. Sales in 1953 were 282,000,000 pounds valued at $99,000,000, compared to 289,000,000 pounds valued at 111,000,000 in 1952. The chemical in this group which was produced in the greatest quantity last year was DDT. In 1953 the output of DDT totaled 84,000,000 pounds.

Production of acyclic pesticides and other acyclic organic agricultural chemicals amounted to 59,000,000 pounds, compared with 46,000,000 pounds in the previous year. Sales in 1953 were 52,000,000 pounds valued at $20,000,000, compared with 42,000,000 pounds valued at $23,000,000 a year earlier.

Mexican Gulf Ships First Sulfur From New Facility

Mexican Gulf Sulphur Company, New York, last week made its first shipment of sulfur from its San Cristobal, Vera Cruz, Mexico, plant which has been under construction since 1952. The initial shipment left San Cristobal by river barge June 17 en route to Coatzacoalcos and trans-shipment to a chemical company in Mexico City. Mexican Gulf's San Cristobal plant is designed to produce 200,000 tons of sulfur annually and, company officials say, can be economically expanded to produce 500,000 a year as additional reserves are developed.

Ninol Laboratories Completes Sulfonates Project in Chicago

Ninol Laboratories, Inc., Chicago, has completed the first phase of its current building program with full-scale production of salt-free sulfonates now under way at its new southside plant. According to Ninol, the plant is one of the first in the country to produce specialty sulfonates from liquid sulfur trioxide. Use of sulfur trioxide in place of the conventional oleum reportedly has the advantage of producing salt-free sulfonates in a single inexpensive step.

Rubber Plant Bidders Hurdle First Barrier

Each of the companies which submitted bids for the purchase of the government's synthetic rubber facilities has been notified by the Rubber Producing Facilities Disposal Commission that it has been found eligible to participate. The final tally showed that thirty-six companies submitted fifty-six proposals and nineteen alternate proposals in time to meet the May 27 deadline.

Commenting on the offers, Holman D. Pettibone, chairman of the commission, expressed satisfaction that every bidder is eligible to discuss his proposal with the commission. "In forthcoming negotiations," he added, "industrial executives will be given ample opportunity to present their position and views on the facilities in which they are interested. However, it is obvious that with the large number of bidders, considerable time will elapse before all companies can be heard."

High Bidders to Be Seen First

The commission announced that negotiations will start with the high bidder for each facility, and that such bidders will be called in as promptly as appointments can be made. In addition to price, other criteria in the disposal act passed by congress require that national security, financial responsibility, technical competence and competitive aspects, with particular regard to small business enterprise, shall be considered. The law requires that the Attorney General be consulted and approve sales from the standpoint of creating a free competitive industry.

The commission will proceed with negotiations without disclosing prices offered for the facilities and without publicly identifying the facilities sought by any company. If a company loses out on its first choice it has the right to negotiate for any other facility in that particular category.

These categories are:—Thirteen general purpose rubber copolymer plants; eight petroleum butadiene plants; two alcohol butadiene plants; two butyl rubber plants; one styrene plant; one DDM chemical plant; miscellaneous equipment, and 448 tankcars. The plants are located in Louisiana, Texas, California, Kentucky, West Virginia, Ohio, Pennsylvania and Connecticut.

In the proposals received, companies with headquarters offices in eighteen scattered states were represented. These states are:—California, Colorado, Connecticut, Indiana, Illinois, Massachusetts, Maryland, Minnesota, Missouri, Montana, New Jersey, New York, Ohio, Oklahoma, Pennsylvania, Rhode Island, Texas and Wisconsin.

Chemical Specialties Selling Syntex Bulk Hormones Again

Chemical Specialties Company, New York, has resumed the sale of bulk steroid hormones and intermediate products manufactured by Syntex S. A., Mexico City. The action, revealed by Chemical Specialties president Dr. I. V. Sollins, marks a revision in the marketing pact drawn up last June by Syntex and Chas. Pfizer & Co., Brooklyn, N. Y.

As a result of last year's agreement, Pfizer and its subsidiaries replaced Chemical Specialties in the marketing of Syntex bulk hormone products. In addition, Pfizer also began distribution of the Syntex line as packaged products. While there was no official announcement from Pfizer as OPD went to press, it was understood that the Brooklyn firm will continue the sale of Syntex hormone products.

Farm Chemicals Installation Opened by Calspray Affiliate

Insecticidas Ortho, Mexican affiliate of California Spray-Chemical Corporation, has opened a new agricultural chemicals plant in Mexicali, Baja California, Mexico. The new plant, which went into production earlier this month, has a warehousing point and dust mill for the production of finished insecticides. The Mexicali unit is the forty-sixth opened since Calspray and its affiliates began an expansion program in 1947.

General Tire Chooses P.A.

General Tire & Rubber Company, Akron, Ohio, has named A. T. Biel purchasing agent of its Ashtabula, Ohio, chemical plant. Mr. Biel, who has been affiliated with General Tire's purchasing operations since 1950, is headquartering at the plant, now in the final stages of construction.

Diamond Makes 5 Key Appointments

Diamond Alkali Company, Cleveland, Ohio, last week appointed William H. Evans a vice-president of the concern and, at the same time, effected four other top-level promotions.

John W. Mantz, assistant general manager of Diamond's Painesville, Ohio, plant since 1950, has been made general manager of the newly-created silicate, detergent, calcium division. L. T. Welshans, for the past seven years technical director of the Painesville plant technical staff, has been named general manager of the newly-created cement and coke division.

C. R. Brown, manager of industrial relations at Painesville since 1950, has been moved up to assistant works manager, succeeding Mr. Mantz. Robert McConnell, who has been Mr. Brown's assistant, has been appointed industrial relations manager at Painesville.

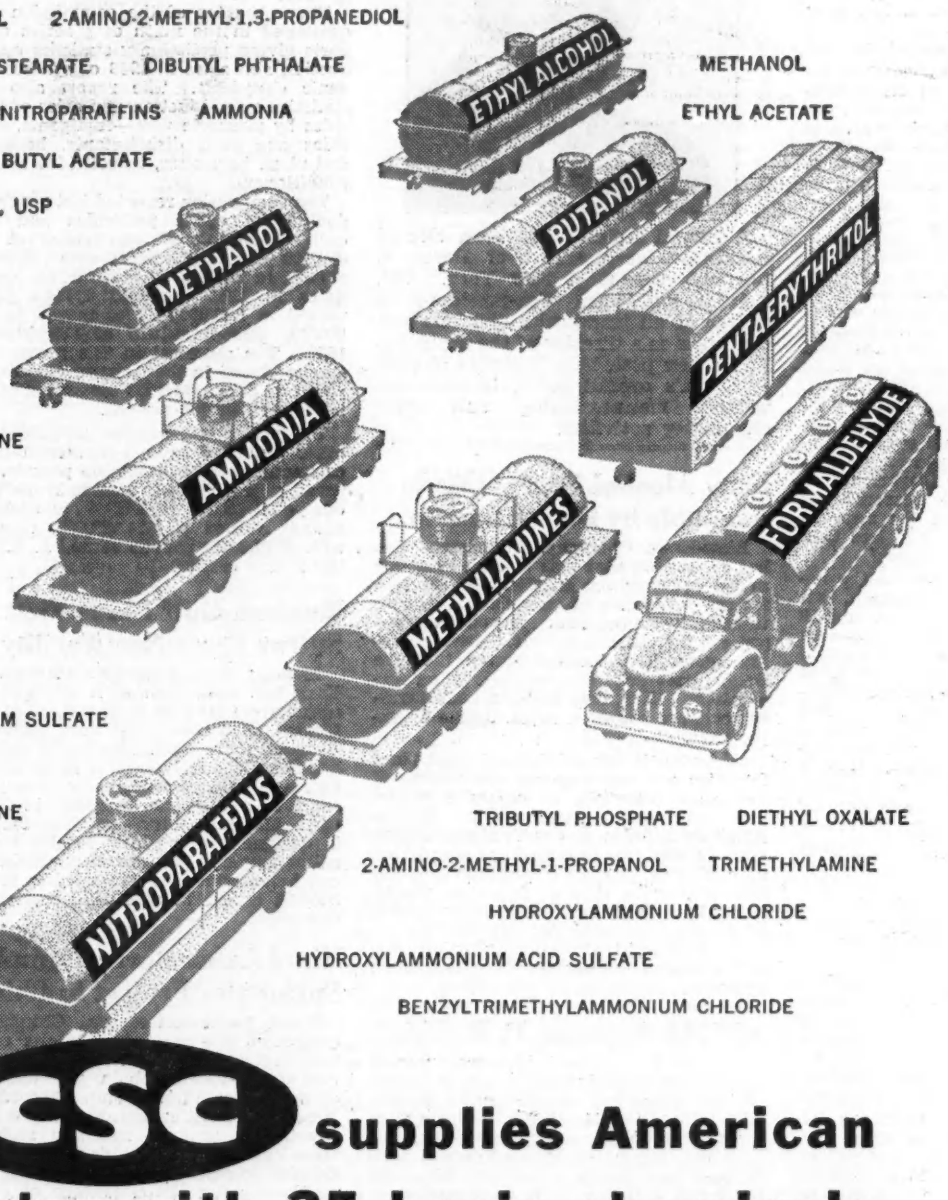
Mr. Evans joined Diamond in 1937, and has occupied a number of key posts in the company, including that of treasurer. During the past six years he has been manager of silicate operations encompassing six plants.

Mr. Mantz, a veteran of twenty-five years on the production side of the alkali industry, came to Diamond in 1946 from Mathieson Alkali Company. Two years later he was made industrial relations manager at Painesville, leaving that post in 1950 to become assistant general manager of the Painesville plant.

William H. Evans

Mr. Welshans, who joined Diamond in 1944 as a development project manager, later became manager of the development department. Mr. Brown, who has been Diamond's industrial relations manager since 1950, was previously associated with the Sinclair Refining Company and the National Enameling & Stamping Company in personnel and labor relations positions.

ETHYL ALCOHOL
2-AMINO-2-METHYL-1,3-PROPANEDIOL
BUTYL STEARATE
DIBUTYL PHTHALATE
BUTYL LACTATE
NITROPARAFFINS
AMMONIA
AMYL ACETATE
BUTYL ACETATE
RIBOFLAVIN, USP
NP DERIVATIVES
BUTANOL
DIMETHYLAMINE
ACETONE
1-NITROPROPANE
2-NITROPROPANE
FORMALDEHYDE
NITROETHANE
ALKATERGE®
NITROMETHANE
HYDROXYLAMMONIUM SULFATE
PENTAERYTHRITOL
MONOMETHYLAMINE



METHANOL
ETHYL ACETATE
TRIBUTYL PHOSPHATE
DIETHYL OXALATE
2-AMINO-2-METHYL-1-PROPANOL
TRIMETHYLAMINE
HYDROXYLAMMONIUM CHLORIDE
HYDROXYLAMMONIUM ACID SULFATE
BENZYLTRIMETHYLAMMONIUM CHLORIDE

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Association Meetings

This Week

Chemical Institute of Canada, annual conference and exhibition, Royal York hotel, Toronto, June 21-23.

Del-Mar-Va Peninsula Fertilizer Association, George Washington hotel, Ocean City, Md., June 26.

United States Trade-Mark Association, annual meeting, Pierre hotel, New York, June 23.

American Chemical Society, national meeting, Statler hotel, New York, September 12-17; Chicago section, national chemical exposition, Chicago Coliseum, October 12-15; Dallas-Fort Worth, Tex., section, southwest regional meeting, Fort Worth, December 2-4.

American Council of Commercial Laboratories, annual meeting, Roosevelt hotel, New Orleans, La., November 3-6.

American Drug Manufacturers Association, annual meeting, Lake Placid Club, Lake Placid, N. Y., June 28-30.

American Institute of Chemical Engineers, annual meeting, Statler hotel, New York, December 12-15.

American Oil Chemists' Society, fall meeting, Radisson hotel, Minneapolis, Minn., October 11-13.

American Petroleum Institute, Conrad Hilton hotel and Palmer House, Chicago, November 8-11.

American Pharmaceutical Association, Statler hotel, Boston, August 22-27.

American Soybean Association and National Soybean Processors Asesociation, combined conventions, Peabody hotel, Memphis, Tenn., August 30-September 2.

Association of Consulting Chemists and Chemical Engineers, annual meeting, symposium, Belmont Plaza hotel, New York, October 26.

Chemical and Plastic Industries Equipment Salon, Parc des Expositions, Paris, France, December 2-12.

Chemical Specialities Manufacturers Association, annual meeting, New Yorker hotel, New York, December 6-8.

Drug, Chemical and Allied Trades Section, New York Board of Trade, annual meeting, Pocono Manor Inn, Pocono Manor, Pa., September 23-25.

Federal Wholesale Druggists' Association, annual convention, Greenbrier hotel, White Sulphur Springs, W. Va., September 19-22.

Federation of Paint and Varnish Production Clubs, annual meeting, Palmer House, Chicago, November 18-20.

International Congress of Industrial Chemistry, Brussels, Belgium, September 11-19.

Magnesium Association, annual meeting, Chase hotel, St. Louis, Mo., November 15-17.

National Chemical Exposition, Chicago Coliseum, Chicago, October 12-15.

National Foreign Trade Council, annual convention, Waldorf-Astoria hotel, New York, November 15-17.

National Paint, Varnish and Lacquer Association, annual meeting, Palmer House, Chicago, November 15-17.

National Safety Congress and Exposition, chemical section, Chicago, October 18-21.

Packaging Machinery Manufacturers' Institute, Grove Park Inn, Asheville, N. C., September 23-26.

Parenteral Drug Association, annual meeting, Barbizon-Plaza hotel, New York, October 27-29.

Plant Maintenance Show, Pan Pacific Auditorium, Los Angeles, July 13-15.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Commodore hotel, New York, September 8.

World Congress on Surface Active Agents, Sorbonne, Paris, France, August 30-September 3.

Rauwolfia Serpentina Export Embargo Is Relaxed by India

The government of India on May 28 relaxed its embargo on exports of rauwolfia serpentina root, according to the Department of Commerce.

The herb, recently found to be of value in relieving high blood pressure, has been exported only from India. Suspension of exports from India was ordered on April 1 to conserve supplies for Indian needs after Indian prices and volume of exports had recorded substantial increases.

Relaxation of the embargo was brought about by a government decision to release consignments covered by letters of credit established prior to the suspension date. The matter of permitting exports under "firm" commitments for which letters of credit had not yet been established will be considered at a later date when individual cases will be reviewed and decided on their merits.

The longer term Indian policy with respect to rauwolfia serpentina exports will be formulated on the basis of a forest survey undertaken to determine the available supply. The survey report is not expected for two or three months.

Rauwolfia serpentina is a wild shrub growing throughout most of India. It has long been an important medicinal in that country, and recently its root was found to contain alkaloids of value in relieving high blood pressure or hypertension.

ASTM Selects Mochel As Its New President

The American Society for Testing Materials at its fifty-seventh annual meeting in Chicago last week elected Norman L. Mochel president of the group for a two-year term. Mr. Mochel is manager of metallurgical engineering for Westinghouse Electric Corporation in Philadelphia.

Named to serve as ASTM vice-president for two years was Rudolph A. Schatzel, vice-president and director of engineering of Rome Cable Corporation, Rome, N. Y. In addition, the association elected five new members to its board of directors. To serve for three-year terms, they are:—

New ASTM Board Members

Edward J. Albert, president and treasurer of Thwing-Albert Instrument Company, Philadelphia; John M. Campbell, administrative director, research laboratories division, General Motors Corporation, Detroit, Mich.; Paul V. Garin, engineer of tests, Southern Pacific Company, San Francisco; John H. Jenkins, chief, Forest Products Laboratories of Canada, Ottawa, and Douglas E. Parsons, chief, building technology division, National Bureau of Standards.

The association's Charles B. Dudley medal—for research in engineering materials—went to Clyde E. Work and Thomas J. Dolan, assistant professor and research professor, respectively, University of Illinois, Urbana, Ill., for their paper entitled "The Influence of Strain-Rate and Temperature on the Strength and Ductility of Mild Steel in Torsion" presented at ASTM's 1953 annual meeting. The C. A. Hogentogler award—for work on soils for engineering purposes—was presented to A. A. Wagner, Bureau of Reclamation, Denver, Col., for his paper "Lateral Load Tests on Piles for Design Information" given at last year's parley.

The Richard L. Templin award—for a paper on new testing methods and apparatus—was given to E. T. Wessel and R. D. Olleman of Westinghouse Electric Corporation, East Pittsburgh, Pa., for their paper "Apparatus for Tension Testing at Subatmospheric Temperatures" published in the *ASTM Bulletin* in January, 1953.

Corrosion Testing Award

The Sam Tour award — for corrosion testing research—went to John T. Richards, chief engineer of Penn Precision Products, Inc., Reading, Pa., for his paper entitled "The Corrosion of Beryllium Copper Strip in Sea Water and Marine Atmospheres" delivered at the 1953 annual meeting.

The first Max Hecht award was presented to Max Hecht, adviser, Power Stations Chemistry, Drexel Hill, Pa., for service to ASTM committee D-19 on industrial water. The first Frank E. Richart award for contributions in the field of concrete and concrete aggregates went to Albert T. Goldbeck, engineering director, National Crushed Stone Association, Washington, D. C.

Plastics Volume Expected To Double in Four Years

Production of plastics will double in the next four years, reaching 6,000,000,000 pounds by 1958, John J. O'Connell, president of the Society of the Plastics Industry, predicted at SPI's recent national plastics exposition and conference in Cleveland, Ohio. He added that estimated production of plastics materials will exceed 3,000,000,000 pounds—the equivalent of a dollar volume of about $1,500,000,000 —this year.

In explaining his prediction of doubled plastics output in four years, Mr. O'Connell likened the plastics industry's position today to that of the steel industry at the turn of the century, when alloys were first introduced to make available steels with special properties. Thus, he said, many new technics were developed and new markets opened.

The SCI president, who is also president of Consolidated Molded Products, Scranton, Pa., pointed out that copolymers, which he termed roughly comparable to alloys, are now moving into the plastics picture. Styrene copolymers, using rubber, have stimulated the rapid rise in vacuum forming, he said, adding that vacuum forming is moving into a number of fields of plastics application formerly held by conventional molding technics.

Polyesters, he continued, are also becoming increasingly important in many new fields. Plastics piping, it was noted, is fast gaining widespread acceptance, with one of its biggest outlets in rural irrigation. In Mr. O'Connell's view, automation will come into its own in the plastics industry within the next five years.

Metal Hydrides Gen'l Mgr.

S. K. Derderian has been named general manager of Metal Hydrides, Inc., Beverly, Mass. Mr. Derderian joined Metal Hydrides in 1943 as a chemist in its analytical laboratory. Starting with a research project on hydrogen compounds, he later worked in almost every phase of the company's activities.

Chemical Safety Group Sets Meeting Oct. 18-21 in Chicago

The meetings of the chemical section of the National Safety Congress and Exposition, to be held October 18 through 21 in Chicago, will feature the election of the 1954-55 officers at the opening session. The annual report will be delivered as the meeting convenes by general chairman E. J. Meyers, assistant manager of the safety and fire protection division of E. I. duPont de Nemours & Co., Wilmington, Del.

The report of the nominating committee will be given by J. E. Nichols, director of safety at Reynolds Metals Company, Richmond, Va., after which the officers will be elected. The gadget session to be held on the opening day will be in the charge of David T. Smith, plant protection supervisor of the Chambers works of duPont. A discussion will follow this session.

"The Use of the Chem-Proof Air Suit," a motion picture in sound and color, will be presented on October 19 by Dr. E. E. Evans, director of medicine and health at duPont's Chambers works. J. J. Duggan, superintendent of fire protection for Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York, will give an illustrated presentation of "Bulk Storage of Flammable Liquids."

A demonstration of the hazards of static electricity in industry will be given by G. M. Kintz, chief of the accident prevention and health division of the Bureau of Mines, and by H. F. Browne of the petroleum engineering division of the Bureau of Mines. Conference meetings of chemical industry groups, to be held on the final day, will include the following sections:—Acids and heavy chemicals; explosives; fine chemicals and pharmaceuticals; industrial gases; laboratories; paint and varnish; plastics, and soap and glycerine.

Soybean Ass'n Meets Jointly With Processors This Year

The American Soybean Association and the National Soybean Processors Association will hold joint annual meetings at the Peabody hotel, Memphis, Tenn., August 30 to September 2, George M. Strayer, American Soybean Association secretary-treasurer, has announced.

It will be the first time the two groups have held their annual meetings jointly, although many processors are members of ASA and attend its yearly meetings. "It is to be hoped that the joint meetings will be the first step toward drawing the producer and processor associations closer together and bringing about closer cooperation for the benefit of the entire soybean industry," Mr. Strayer said.

The processor annual business meeting will be August 30. Program sessions of the American Soybean Association will be August 31 and September 1. August 31 will be devoted to utilization and processing, and September 1 to production, storage, handling and marketing. The annual ASA banquet will be held the evening of September 1. Exhibits of equipment and services to the industry will be shown on the mezzanine floor of the Peabody hotel.

Whale Oil Production Increase Is Expected

World production of whale and sperm oils during 1953-54 is forecast at 455,000 and 60,000 short tons, respectively, as compared with 420,000 and 55,000 tons in 1952-53, according to information available to the Foreign Agricultural Service. The increase in both of these oils is due mainly to larger returns from Antarctic pelagic (open sea) operations.

Antarctic production of both whale and sperm oils in the recent 1953-54 whaling season was around 392,000 tons, according to provisional data, or 5 percent larger than the corresponding outturn of the preceding season. Whale oil output increased by 4 percent to 366,793 tons and sperm oil by 19 percent to 25,369 tons.

Reason for Larger Whale Oil Output

The larger production of whale oil was attributed by FAS to the fact that in the past season the catch of baleen whales closely approximated the permissible catch-limit of 15,500 blue-whale units (established by international agreement), while in 1952-53 the total catch amounted to only 14,855 units, or considerably short of the 16,000-unit quota allowed. Since no maximum quota has been established for the catch of sperm whales, the increased output of sperm oil in 1953-54 was due largely to a more favorable price and demand situation than that which prevailed during the previous season, the agency said.

There were seventeen expeditions operating in the 1953-54 Antarctic season, or one more than in 1952-53. Norway, with nine factory ships, was again the leading producer of whale oil followed by the United Kingdom, Japan, the Soviet Union, the Union of South Africa and the Netherlands.

Antarctic production of whale oil, including that which is produced by three South Georgia shore-stations, usually accounts for around 90 percent of the world supply. Output of whale oil by the South Georgia stations in 1953-54 is believed to have increased by as much as 755 percent from the 21,161 tons produced in 1952-53. It is expected that this year's production of whale oil from the numerous shore-stations operating in scattered parts of the world will be at least as large as in 1952-53 when some 46,000 tons were produced.

Sperm Oil Production

Sperm oil production during 1953-54 from Antarctic operations amounted to about 27,000 tons against 22,500 tons in 1952-53. Production from other areas of the world can only be roughly estimated as data regarding normally extensive North Pacific sperm whaling by the Soviet Union are not yet available for 1953. In the three years 1950-52 Soviet Union output of sperm oil from this area averaged about 12,000 tons, according to reports.

As of April 2, the entire pelagic production of whale oil had been sold at prices ranging from £67-10-0 to £81-10-0 per long ton $169-$204 per short ton). At that time only the Argentine South Georgia land-station outturn, estimated to be around 11,000 tons, was still unsold. In addition there was a carryover from the 1952-53 Antarctic season of about 17,000 tons which was in storage in the Netherlands. The forthcoming Australian summer production (in 1953 Australia produced 19,100 tons of whale oil) has been sold in advance at prices between £72-10-0 to £86-0-0 per long ton ($181-$215). It is reported, also, that a large part of other summer production, including that of Norway and Iceland, has been contracted for at similar prices.

National Petroleum Council Calls Conference Next Month

Walter S. Hallanan, chairman of the National Petroleum Council, has called a meeting of the council for July 15 in conference rooms A and B of the Departmental Auditorium, Washington, D. C. Mr. Hallanan said reports from the committee on oil and gas emergency defense organization, the special committee on tributes to petroleum administration for defense personnel, and the committees on petroleum storage capacity and the use of radio and radar in the oil and gas industries may be presented at the meeting.

Labs Council Parley Slated

The American Council of Commercial Laboratories will hold its annual meeting at the Roosevelt hotel, New Orleans, La., November 3 through 6.

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Current Market Quotations

Chemicals and Related Materials

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Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, June 18 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

Index to Reports on Price Changes and Other Market Aspects

cids 38
gricultural Chemicals 43
romatic Chemicals 62
otanical Drugs 55
oal Chemicals 50
Drugs 55
Essential Oils 62
Fats and Greases 69
Fertilizer Materials 43
Fine Chemicals 55
Heavy Chemicals 38
Industrial Organic Chemicals 46
Lacquer Materials 65
Leather Chemicals 53
Naval Stores 65
Oil Cake and Meal 69
Oils 69
Paint Materials 65
Pesticides 43
Petrochemicals 46
Petroleum Derivatives 45
Protective Coatings Materials 65
Spices 62
Textile Chemicals 53
Waxes 69

A

cia (see Gum arabic).
naphthene below 92.5 C., m.p., dms. works lb. .40 - —
bove 92.5 C., m.p., bbls., dms., works lb. .41 - .50
taldehyde 99% dms. c.l., frt. equald lb. .1250 - .1435
l.c.l. frt. equald lb. .1350 - .1535
tanks, frt equald lb. .1050 - .1300
taldol (see Aldol).
tanilide tech., bbls., c.l., dlvd lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .30½ - —
SP, bbls., 2,000-lb. lots lb. .80 - —
smaller lots lb. .81 - .86
tic anhydride, dms., c.l., dlvd E. lb. .15¼ - —
l.c.l., dlvd E lb. .17 - —
tanks, dlvd E lb. .14 - —
toacetanilide, fib. dms., c.l., dlvd lb. .75 - —
l.c.l., dlvd. lb. .76 - —
toacet-o-chloroanilide, fib., dms., c.l., dlvd lb. 1.27 - —
l.c.l., dlvd. lb. 1.38 - —
toacet-o-toluidide, fib., dms., c.l. dlvd lb. .78 - —
l.c.l. dlvd lb. .79 - —
tone, CP, dms., c.l., dlvd. lb. .10 - —
l.c.l., dlvd. lb. .11 - —
tanks, dlvd. lb. .08 - —
ethyl (see M)
tonitrile dms. c.l. works lb. .45 - —
l.c.l. works lb. .47 - —
tophenetidine, USP, bbls., works, frt. equald lb. 1.15 - 1.17
tophenone cns., dms lb. 1.21 - 1.85
ch., dms., l.c.l., works lb. .75 - —
etylaminobenzaldehyde thiosemicarbazone, dms, frt. adjusted. lb. 17.50 - 21.00
cetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85
yltributyl citrate, tech. dms., c.l lb. .33½ - —
l.c.l lb. .36½ - —
tanks lb. .32 - —
yltriethyl citrate, tech., dms., c.l lb. .37½ - —
l.c.l lb. .36½ - —
tanks lb. .36 - —
, abietic, coml., dms., c.l., works lb. .12 - —
l.c.l., ex whse lb. .1490 - —
eryst., dms. c.l. works lb. .06½ - —
l.c.l. works lb. .07 - .07½
etic, coml., or redist., 28%, bbls. 100 lbs. 4.80 - —
56%, bbls 100 lbs 6.25 - —
70%, bbls 100 lbs. 9.95 - —
80%, bbls 100 lbs. 10.45 - —
glacial, syn., CP, dms., dlvd. 100 lbs. 15.00 - 16.00
tech., dms., c.l., dlvd 100 lbs. 10.50 - 12.00
l.c.l., same basis 100 lbs. 11.00 - 13.00
tanks, dlvd 100 lbs. 10.00 - —
USP cbys., inclusive, dlvd., 100 lbs. 24.00 - 35.00
etic anhydride (see Acetic anhydride above).
etylsalicylic, USP special, bbls., makers, primary distrib., point of ship't, 1,000-lb. lots lb. .60 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (80 mesh), bbls., 1,000-lb. lots. lb. .55 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

ipic, fib. dms., works lb. .37 - .37½
inoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.75
Aminobenzoic, tech., dms., works lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots, works, same basis lb. 2.55 - 2.60
Aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.00 - —
smaller lots, same basis lb. 4.05 - 4.50
thranilic, bbls., frt. equald lb. 1.21 - —
senous, tech., (see Arsenic, white).
USP (see Arsenic trioxide).
corbic USP dms., 25-50 kilo lots. kilo. 21.00 - —
10-kilo lots kilo. 21.35 - —
5-kilo lots kilo. 21.75 - —
bots., 1-kilo lots kilo. 22.00 - —
500-gram lots kilo. 22.50 - —
ttery, cbys. c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45
nzoic, tech. bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls. dms. 100-lb. lots or more lb. .54 - —
tahydroxynaphthoic (see Acid, b-Oxynaphthoic).
taoxynaphthoic (see Acid, b-Oxynaphthoic).
ric, tech 99½%, cryst., bgs., c.l., works ton. 124.25 - —
ton lots, ex whse., N. Y. or Chi ton. 172.00 - —
smaller lots, same basis. ton. 177.00 - —
bbls., c.l., works ton. 148.75 - —
ton lots, ex whse., N. Y. or Chi ton. 196.50 - —
smaller lots, same basis. ton. 201.50 - —
gran., bgs., c.l., works ton. 99.25 - —
ton lots, ex whse., N. Y. or Chi ton. 147.00 - —
smaller lots, same basis. ton. 152.00 - —
bbls., c.l., works ton. 123.75 - —
ton lots, ex whse., N. Y. or Chi ton. 171.50 - —
smaller lots, same basis. ton. 176.50 - —
bulk, c.l., works ton. 94.25 - —

Acid, boric, tech., powd., bgs., c.l., works ton. 104.25 - —
ton lots, ex whse., N. Y. or Chi ton. 152.00 - —
smaller lots same basis. ton. 157.00 - —
bbls., c.l., works ton. 128.75 - —
ton lots, ex whse., N. Y. or Chi ton. 176.50 - —
smaller lots same basis. ton. 181.50 - —

Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric acid $25 per ton higher.

Broenners, bbls lb. 1.76 - —
Butyric, 99%, dms., c.l., works, lb. .34 - —
l.c.l., works lb. .34½ - —
tankcars, works lb. .32¼ - —
Cacodylic, bots lb 10.50 - 13.00
Camphoric natural, dms lb 4.00 - 4.75
synth dms lb 4.00 - 4.75
Capric, dms lb. .26¼ - .28
Caprylic, dms lb. .29¾ - .31½
Cassella, dms. frt alld lb. 1.44 - 1.75
Castor oil, split, dms lb. .35½ - .36
Chicago, bbls., frt alld lb. 3.21 - —
Chloroacetic, mono-, purified, flake, 99% dms. lb. .23½ - .25½
tech., flake, 96-97%, frt. equald, dms lb. .20 - .21
o-Chlorobenzoic, fib. dms., works lb. 1.13 - —
p-Chlorobenzoic, fib. dms., works lb. 1.59 - 1.62
Chlorosulfonic dms., c.l., frt. equald lb. .0465 - —
l.c.l., frt. equald lb. .0515 - —
tanks, frt. equald lb. .0415 - —
Acid, chlorosulfonic, in stainless steel dms. ½c. per lb. higher.
Cholic, 25-100 lb bots., fiber dms. lb. 6.25 - 6.50
Chromic 99¾%, dms., c.l., works lb. .27½ - —
l.c.l., works lb. .28 - .29
NF (see chromium trioxide).
Cinnamic, refd., bots lb. 2.50 - 3.50
Citric, USP, anhyd., gran., fine grys, dms., c.l lb. .28¾ - —
10,000-lb. lots, 1 shipt. lb. .29¼ - —
smaller lots lb. .29¾ - .31¼
hydrous, gran., fine gran., dms. c.l lb. .27 - —
10,000-lb. lots, 1 shipt. lb. .27½ - —
smaller lots lb. .28 - .29½
Powdered citric acid ½c. higher.

Acid, Cleve's, mixed, bbls. lb. .79 - —
Coconut oil, dist., dms. lb. .24¾ - .26½
tankcars lb. .23 - —
double dist., dms lb. .25½ - .27¼
tankcars lb. .23¾ - —
Corn oil, dist., dms lb. .14¾ - .16½
tanks lb. .13 - —
Cottonseed oil, dist., dms lb. .12¼ - .14
tanks lb. .10½ - —
double dist., dms lb. .12¾ - .11½
tanks lb. .11 - —
2,3-Cresotic, dms., ton lots, works, lb. .66 - —
smaller lots lb. 1.82 - 2.00
Cresylic, coaltar, dom., 50% 207°C or above, ret dms. c.l., frt. equald gal. .98 - —
l.c.l., same basis gal. 1.03 - —
non-ret., dms. c.l., same basis gal. 1.01 - —
l.c.l. same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
204° to 207°C., ret., dms., c.l., same basis gal. 1.03 - —
l.c.l., same basis gal. 1.08 - —
non-ret., dms. c.l. same basis gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —
tanks, same basis gal. .95 - —
imp. 75% at 215°C. or over, dms., ex whse gal. .75 - .90
petroleum, dom. 195° to 213°C, non ret dms., c.l. San Francisco and Los Angeles gal. .71 - —
l.c.l., same basis gal. .73 - .75
tanks, same basis gal. .58 - —
200° C. to 222° C., tanks, Wilmington, Cal gal. .58 - .63
211° C to 230° C. non-ret. dms., c.l., San Francisco and Los Angeles gal. .63 - —
l.c.l., same basis gal. .65 - .67
tanks, same basis gal. .50 - —
220° C to 242° C. tanks, Wilmington Cal gal. .50 - .53
245° C to 298° C. tanks, Wilmington Cal gal. .46 - —
Crotonic, fib. dms., c.l., 200 lbs. or more, works lb. .44 - —
Cyanoacetic, tech., bbls lb. .90 - 1.25
Dehydrocholic injection fib dms. 10 to 100-lb. lots lb. 15.25 - —
oral, fib., dms., 10 to 100-lb lots lb. 11.75 - 12.00
Desoxycholic, fib dms 10 to 100 lb. lots lb. 15.00 - 15.25
Dichlorophenoxyacetic (see under 'D' 2,4-D)
Diethylbarbituric (see Barbital)
Diglycolic, bgs., works lb. .14 - —

Acid, 2-ethyl hexoic, dms., c.l., works lb. .35 - —
l.c.l., works lb. .35½ - —
tanks, works lb. .33½ - —
F, crude, paste, bbls., works lb. 2.10 - —
Folic, bots., fib. cns kilo-lots or more gram. 1.60 - —
Formic, 85%, cbys., c.l., works lb. .1570 - —
l.c.l., works lb. .1620 - .1720
90%, cbys., c.l., works lb. .1625 - —
l.c.l. works lb. .1675 - .1775
Fumaric, tech., bgs., dms lb. .27 - .28
Gallic, NF VII, bbls., 1,000-lb. lots. lb. 1.80 - —
smaller lots lb. 1.82 - 2.00
technical, bbls., 1,000-lb lots lb. 1.58 - —
smaller lots lb. 1.69 - 1.78
Gamma, dry, ground, bbls., frt. alld lb 1.50 - —
paste, bbls., frt. alld lb. 1.45 - —
Gentisic, 100-lb fib dms lb 8.50 - —
Gluconic, tech., 50% bots. lb. .25 - .35
cbys. lb. .19 - —
dms. lb. .15½ - —
l-Glutamic, 99½% fib. dms., 100 lb lots works lb 2.45 - 2.53
25-lb. lots, works lb. 2.54 - 2.60
Glycerophosphoric, 35%, dms., works lb. 2.25 - 2.35
Glycolic (see Acid hydroxyacetic).
H, dry, bbls., works, 100% basis, lb. .82 - —
paste, bbls., works, 100% basis, lb. .80 - —
Hydriodic, 1.50 s.g., cbys lb. 2.94 - —
1.70 s.g., cbys lb. 3.23 - —
Hydrobromic, medicinal, 48%, cbys., dlvd E lb .37 - .43
Hydrochloric, anhyd. (see Hydrogen chloride).
18° cbys., c.l., works 100 lbs. 2.50 - —
l.c.l., dlvd Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt. equald ton. 28.00 - —
20° cbys., c.l., works 100 lbs. 2.80 - —
l.c.l., dlvd Metropolitan area 100 lbs. 3.00 - 4.00
tanks, works, frt. equald ton. 30.00 - —
22° cbys., c.l., works 100 lbs. 2.15 - —
l.c.l., dlvd Metropolitan area 100 lbs. 3.25 - 4.50
tanks, works, frt. equald ton. 35.00 - —
CP, USP, consumers, cbys., extra c.l., works lb. .11¾ - —
l.c.l., same basis lb. 13¼ - .13¾
5-pint bots., extra, cs., c.l., same basis lb. .16¾ - —
l.c.l., same basis lb. .19¼ - —
Acid, hydrochloric, CP, USP prices to dealers 1½c per lb less.
Hydrocyanic, cyls., frt. alld lb. .75 - 93
dilute NF 2% 5-lb bots lb 40 - —
Hydrofluoric, anhyd. (see Hydrogen fluoride).
tanks, works lb. .21 - —
70%, steel dms., works lb. .18½ - .22¼
Hydrofluosilicic, basis 30%, dms., works lb. .06 - —
Hydroxyacetic, tech., 70%, non-ret. bbls., Phila., 100% basis lb. .136 - —
tanks, Belle, W. Va., 100% basis lb. .093 - —
Hypophosphorus, purif., 50%, cbys lb. 1.30 - 1.32
USP, cbys lb. .88 - —
Isonicotinic, 100 lb fib dms, works lb. 5.00 - —
Hydrazide (see Isoniazid).
J, bbls., works, 100% basis lb. 2.50 - 2.85
Koch, bbls., frt. alld lb. .64 - .70
L, bbls., works lb. 1.25 - —
Lactic, edible, 50%, bbls., 20 or more lb. .17 - .20
smaller lots lb. .1750 - .2100
80%, bbls., 5 or more lb. .30 - .3640
smaller lots lb. .305 - .3699
NF, 85%, cbys lb. .65 - .68
plastic grade, 50%, bbls., 20 or more, works lb. .2175 - —
1 to 19 lb. .2225 - .2278
80%, bbls., 5 or more lb. .3818 - —
tech., 22%, bbls., c.l., works 100 lbs. 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., l.c.l., works 100 lbs. 7.20 - 12.20
44%, bbls., c.l., works 100 lbs. 11.45 - 11.98
l.c.l., works 100 lbs. 11.15 - 12.50
Laurent's, bbls lb. .60 - —
Lauric, 90%, dms lb. .36¼ - .38
Linseed oil, dist., dms lb. .2125 - —
water white, dms lb. .2425 - —
Maleic, cryst., powd., dms lb. .37 - .38
Malic, tech., dms lb. .50 - —
Mandelic, NF, dms., 1,000-lb. lots. lb. 2.35 - —
smaller lots lb. 2.40 - 2.50
Metanilic, dms., works lb. .57 - .75
Methacrylic, glacial, 98%, dms., truckloads, works lb. .54½ - —
smaller lots, works lb. .55 - —
Molybdic, 85-92%, dms. works lb 1.27 - —
Monochloroacetic, purif. (see Acid, Chloroacetic, mono-).
Muriatic (see Acid, hydrochloric)
Myristic, dms lb. .28 - .29¼
Naphthenic, 220-230 acidity, dms., works lb. .13¼ - —
tanks, works lb. .11¼ - —
Naphthol (1)-4-sulfonic (see Acid Nevile and Winthers)
Naphthol(1)-5-sulfonic (see Acid, L).
Naphthol(1)5-sulfonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulfonic,8-amino (see Acid H).
Naphthol(2)-6,8-disulfonic (see Acid, Gamma)
(5)-7-Sulfonic,2-amino (see Acid, J).
Naphtholsulfonic, mixed (see Acid, Cleve's, mixed).
Naphthylamine(1)-5-sulfonic (see Acid, Laurent's).
(2)-6-sulfonic (see Acid, Broenner's).
(2)-7-sulfonic (see Acid, F).
(2)-1-sulfonic (see Acid, Tobias).

Abbreviations

Used in OPD Market Quotations

ACS	American Chemical Society	dist.	distilled	NNR	New and Nonofficial Remedies
alld.	allowed	distr.	distributor		
amorph.	amorphous	djns.	demijohns	No.	number
AMP	American melting point	dlvd.	delivered	nom.	nominal
		dms.	drums	o-	ortho
anhyd.	anhydrous	dom.	domestic	ord.	ordinary
a.p.a.	available phosphoric acid	E.	east	oz.	ounce
		e.p.	end point	p-	para
artif.	artificial	equald.	equalized	Pac.	Pacific
ASTM	American Society for Testing Materials	exp.	expressed	pf.	proof
		F.	fahrenheit	phos.	phosphate
		ferment.	fermentation	photo.	photographic
Be.	Baume	f.f.a.	free fatty acid	pkgs.	packages
bbls.	barrels	f.f.c.	free from chlorine	powd.	powdered
bgs.	bags			precip.	precipitated
bls.	bales	fib.	fiber	prod.	producer
bots.	bottles	f.o.b.	free on board	pt.	point
b.p.	boiling point	f.p.a.	free of prussic acid	pulv.	pulverized
b.p.l.	bone phosphate of lime			purif.	purified
		frt.	freight	redist.	redistilled
b.r.	boiling range	gal.	gallon	refd.	refined
bxs.	boxes	gran.	granular	refy.	refinery
C.	centigrade	grd.	ground	reg.	regular
cbys.	carboys	i.&a.	iron and aluminum	resub.	resublimed
CD	completely denatured			ret.	returnable
		i.b.p.	initial boiling point	SD	specially denatured
c.i.f.	cost, insurance, freight	imp.	imported	s.d.	single distilled
		incl.	included	S. E.	southeast
cks.	casks	indust.	industrial	sec.	secondary
c.l.	carlots	kgs.	kegs	secs.	seconds
cns.	cans	l-	laevo	s.g.	specific gravity
coml.	commercial	lacq.	lacquer	shipt.	shipment
conc.	concentrated	lb.	pound	soln.	solution
CP	chemically pure	l.c.l.	less than carlots	s.u.	standard unit
cps.	centipoises	liq.	liquid	syn.	synthetic
cryst.	crystal	m-	meta	tanks.	railroad tankcars
cs.	cases	m.a.p.	mixed aniline point	tech.	technical
ctns.	cartons			tert-	tertiary
cyls.	cylinders	min.	minimum	USP	U. S. Pharmacopoeia
d-	dextro	m.p.	melting point		
dbl.	double	N-	nitrogen	vis.	viscosity
denat.	denatured	n-	normal	VM&P	varnish makers & painters
dest-dist.	destructive-distilled	nat.	natural		
		neut.	neutral	W.	west
dl-	dextro-laevo	NF	National Formulary	whse.	warehouse
				w. w.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, Nevile and Winther's — Alcohol, Ethyl

Acid, Nevile and Winther's, dms., frt. alld lb. 1.20 - —
Nicotinic, USP, dms., frt. adjusted silo 9.00 - 9.30
Amide, USP, (see Nicotinamide).
Nitric 36° Be chys., c.l., works, E. 100 lbs. 5.25 - —
l.c.l., works, E 100 lbs. 5.55 - 6.35
38° Be chys., c.l., works, E. 100 lbs. 5.75 - —
l.c.l. works E 100 lbs. 6.05 6.80
40° Be, chys., c.l., works, E 100 lbs. 6.25 - —
l.c.l., works, E 100 lbs. 6.55 - 7.35
42° Be chys., c.l., works, E. 100 lbs. 6.75 - —
l.c.l., works, E 100 lbs. 7.05 - 7.85
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.40 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.40 - —
CP NF, consumers, chys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .15 - .15½
5 pint bottles, extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .19 - .25
p-Nitrobenzoic, dms., c.l., works lb. .72 - —
l.c.l., works lb. .73 - —
Oleic, single dist., dms lb. .15¾- .17½
tanks lb. .14 - —
double dist., (white), dms lb. .18¼- .20
tanks lb. .16½- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic)
Orthocresotinic (see Acid, 2,3-Cresotic).
Oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —
b-Oxynaphthoic, bbls., works lb. 1.14 - —
Palm oil, double dist., dms lb. .13¼- .15
Para-aminobenzoic (see Acid, p-Aminobenzoic)
Acid, para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst., cns. lb. .75 - ?
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see Acid, mandelic).
Phosphoric, food grade, 75%, chys. c.l., works 100 lbs. 7.30 - —
l.c.l., works 100 lbs. 7.80 - 8.30
tanks, works 100 lbs. 5.10 - —
NF, 85%, chys., c.l., works lb. .08½- —
l.c.l., works lb. .09 - .09½
Picric, NF, bbls lb. .55 - —
dms small lb. .81 - .87
tech., bbls lb. .32 - .33
Propionic, syn., pure, dms., c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
tanks, works lb. .19 - —
Pyrogaiic, NF, (see Pyrogallol)
tech., bbls lb 2.76 - 2.99
Ricinoleic (see Acid, castor oil, split).
S bbls., works lb 3.25 - —
Salicylic, crude, fib. dms lb. .37 - —
sublimed, tech., fib. dms., c.l. lb. .39 - —
l.c.l. lb. .46 - —
dyestuffs grade, fib. dms lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powder, fib. dms lb. .53 - —
Sebacic, purified, dms., c.l., works. lb. .64 - —
l.c.l., works lb. .66 - .70
Soybean oil, double dist., dms lb. .17½- .18¾
tanks lb. .15¾- .16
single dist., dms lb. .17 - .18¾
tanks lb. .15¼- —
Acid, stearic, double pressed, bgs. lb. .13¼- .15
single pressed, bgs lb. .12¾- .14½
triple-pressed, bgs lb. .15½- .17¼
Succinic, purified, cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld. lb. .19 - —
l.c.l., frt. alld lb. .21 - —
Sulfuric, 60° Be, chys., c.l., works 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.45 - —
tanks, works ton 18.60 - —
66° Be, chys., c.l., works 100 lbs. 2.25 - —
l.c.l., works 100 lbs. 2.55 - 3.35
tanks, works ton 22.35 - —
98%, tanks, works ton 23.50 - —
99-100%, tanks, works ton 23.95 - —
CP, NF, consumers chys. extra, c.l., works frt. equald lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5 pt. botz., extra, cs., c.l., works, frt. equald lb. .13¼- —
l.c.l. same basis lb. .14¾- .20¾
oleum, 20%, tanks, works ton 25.00 - —
40% tanks, works ton 29.00 - —
65% tanks, works ton 39.50 - —
Tallow, dist., dms lb. .12¼- .14
hydrogenated, bgs lb. .12½- .14¼
Tannic, NF, fluffy, bbls., 1,000-lb lots lb 1.50 - 1.60
smaller lots lb 1.65 - 1.76
powder bbls, 1,000-lb lots lb 1.50 - —
smaller lots lb. 1.51 - 1.69
tech, dms lb. .95 - —
Tartaric, USP, dom., 230 or 250-lb., dms., c.l lb. .37 - —
10,000-lb. lots, 1 shipt lb. .37½- —
smaller lots lb. .38 - —
100-lb dms lb. .39 - —
small dms lb. .41 - .47
Imported, bgs lb. .34 - —
Acid, thioglycolic, refined, cbys., 100% basis lb. 1.80 - 1.56
Tobias, bbls., frt. alld lb. .74 - —
p-Toluenesulfonic, dms., c.l., works. lb. .16 - —
l.c.l., works lb. .17½- —
p-Toluidine-m-sulfonic, bbls., works lb. .92 - 1.04
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5T)
Undecylenic dms. lb 1.40 - —
Aconite root, bls lb. .50 - .55
Aconitine, cryst., potent, bots oz. 78.00 - 85.00
Acrolein, tech., dms., c.l., works. lb. .47 - —
l.c.l., works lb. .47½- —
Acrylonitrile, dms., c.l., works lb. .33 - —
l.c.l., works lb. .34 - —
tanks, works lb. .31 - —
ACTH, bots gram. 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 3.50 - —
powdered, 30 mesh, fib., dms lb. 4.00 - —
dl-Alanine, dms., works lb. 8.50 - 11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., l.c.l lb. .65 - .90
Egg, edible, flake, bbls lb. 1.50 - 1.52
powder, bbls lb. 1.54 - 1.56
tech., cryst., bbls lb. .85 - .87
Alcohol, allyl, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, ref.)
fermentation, ref'd, 128-132°C., dms., l.c.l., dlvd lb. .34 - —
ACS grade, dms., c.l., dlvd lb. .36 - —
mixed, primary, dms., c.l., works lb. .19¼- —
l.c.l., works lb. .20¼- —
tanks, works lb. .17¼- —
1-pentanol (synthetic normal), dms., c.l., works lb. .42 - —
l.c.l., works lb. .43½- —
tanks, works lb. .40 - —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
n-synthetic, dms., c.l., frt. alld., lb. .17 - —
l.c.l., frt. alld lb. .18 - —
tanks, frt. alld lb. .15 - —
sec-synthetic, dms., c.l., frt. alld., works lo. .19 - —
l.c.l., works lb. .20 - —
tanks, works lb. .16 - —
tert-synthetic, dms., c.l., frt. alld. E lb. .17 - —
l.c.l., frt. alld. E lb. .18 - —
tanks, frt. alld. E lb. .15 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
n-Butyl fermentation, dms., c.l., frt. alld lb. .15 - —
l.c.l., frt. alld lb. .16 - —
tanks, frt. alld lb. .13 - —
n-synthetic, dms., c.l., dlvd. lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
sec-synthetic, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, works lb. .12 - —
Capryl, 85%, dms., c.l., works. lb. .18 - —
l.c.l. works lb. .18½- —
tanks, works lb. .16½- —
95%, dms., c.l., works lb. .19½- —
l.c.l., works lb. .20 - —
tanks, works lb. .18 - —
Cetyl, extra, fib., cns., 500-lb. lots or more lb. .73 - —
smaller lots lb. .80 - 1.15
NF, fib., cns., 140-lb. lots or more lb. .58 - .82
smaller lots lb. .59 - .82
Cinnamic, bots lb. 2.15 - 2.75
Decyl, bots lb. 1.75 - 2.00
Industrial (see 1-Decanol).
Denatured, CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis, gal. .59½- .65⅛
tanks, dlvd., same basis gal. .41½- —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.

Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.

SD1, dms., c.l., dlvd. E. or Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66⅛
tanks, same basis gal. .42½- —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66⅛
tanks, same basis gal. .42½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis gal. .59½- .65⅛
tanks, same basis gal. .41½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD40, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
Diacetone, acetone-free, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13¼- —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies. gal. 20.48 - —
l.c.l., same basis gal. 20.53 - 20.59
tanks, same basis gal. 20.35 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies. gal. 21.58 - —
l.c.l., same basis gal. 21.63 - 21.69
tanks, same basis gal. 21.45 - —

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PUBLICKER can assure you of Uniform Quality, Steady Supply and Prompt Delivery of:

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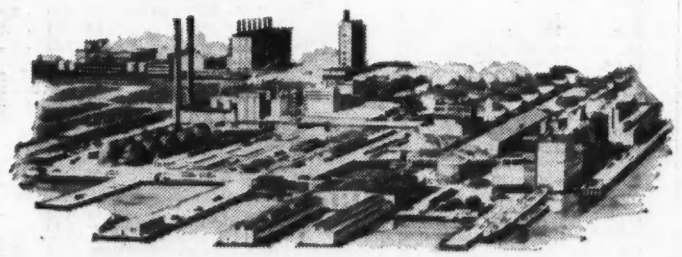

PUBLICKER INDUSTRIES Inc.

1429 WALNUT STREET, PHILADELPHIA 2, PA.

NEW YORK & NEW ENGLAND DISTRIBUTOR, PUBLICKER ALCOHOL & CHEMICALS SALES CORPORATION

PHILADELPHIA—LOCUST 4-1400 • PITTSBURGH—LOCUST 1-8527 • NEW YORK—OXFORD 5-4160 • BOSTON—FAIRVIEW 4-1868

Alcohol, 2-ethylbutyl, dms., c.l., works lb. .29½- —
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
2-Ethylhexyl, dms., c.l., dlvd. E lb. .23¾- —
l.c.l., same basis lb. .24¾- —
tanks, same basis lb. .21¾- —
Furfuryl, cns., works lb. .29 - —
dms., c.l., Cedar Rapids, Ia lb. .21 - —
Newark, N. J. lb. .21½- —
l.c.l., Cedar Rapids, Ia lb. .22 - —
Newark, N. J. lb. .22½- —
tanks, Memphis, Tenn lb. .184 - —
Isoamyl (see Alcohol, amyl, fermentation, refined).
Isobutyl, dms., c.l., dlvd lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., dlvd. E lb. .23 - —
l.c.l., dlvd. E lb. .24 - —
tanks, dlvd. E lb. .21 - —
Isopropyl, refd., 91%, dms., c.l., dlvd. gal. .48 - —
l.c.l., dlvd gal. .55 - —
tanks, dlvd gal. .35 - —
95% dms., c.l., dlvd gal. .50 - —
l.c.l., dlvd gal. .57 - —
tanks, dlvd gal. .37 - —
99% dms., c.l., dlvd gal. .52 - —
l.c.l., dlvd gal. .59 - —
tanks, dlvd gal. .39 - —
Lauryl, bots. lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl)
Octyl, perfumer's grade, bots. lb. 1.75 - 3.25
tech. (see Octanol, normal).
2-Phenylethyl, extra, dms lb. 1.14 - 1.45
standard, dms. lb. 1.26 - 1.35
n-Propyl, dms., c.l., dlvd lb. .12 - —
l.c.l., dlvd lb. .13 - —
tanks, dlvd lb. .10 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Iowa lb. .54 - —
dms., c.l., Niagara Falls, N. Y. lb. .44½- —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .47 - —
tanks, Niagara Falls, N. Y lb 43 - —
Industrial grade, dms., c.l., Niagara Falls, N. Y lb. .305 - —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .33 - —
tanks, Niagara Falls, N. Y. lb. .29 - —
Wood (see Methanol).
Aldol, 95%, dms., works lb. .23 - —
denaturing grade dms gal. 2.15 - —
Aldrin, 60% soln., dms., c.l., works, frt alld lb 538 - —
l.c.l., works, frt. alld lb. .588 - —
Aletris root, bgs lb. 1.75 - 1.85
Algin (see Sodium alginate).
Allethrin 100% dms. frt., alld lb 32.00 - —
90% dms., frt, alld lb. 29.15 - —
solution 20% dms. 100-lb. lots frt. alld lb. 6.80 - —
2½%, dms., frt. alld lb. .90 - 1.25
Allspice (see Pimento).
Allyl bromide, cnys., works lb 1.35 - 1.40
Chloride, dms., c.l., dlvd lb. .17 - —
l.c.l., dlvd. lb. .18 - —
tanks, dlvd lb. .15 - —
Starch, solid dms., works lb. .52¾- .54¼
solution, 40% toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs. .36 - —
powd., cs. lb. .50 - —
Curacao kgs. lb. .50 - .55
Socotrine, kgs. lb. No prices
Aloin, USP, bbls., dms., kgs lb. 3.75 - 3.82
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt, dms lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Potassium, gran., bgs., works, 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt dms lb. .20 - .21
hydrous dms lb. .07¾- .08
Potash-chrome, dms. lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works, lb. .0385- —
l.c.l., works lb. .0410- .0510
Aluminum acetate, basic solut., 24%, bbls., l.c.l. works lb. .14 - —
Chloride, com'l, anhyd. dms., c.l., works, frt. equald lb. .15 - —
l.c.l. works, frt. equald. lb. .1550- —
cryst., dms., c.l., works lb. .1030- —
l.c.l., works lb. .1070- —
soln. 32° cbys., c.l., works lb. .0369- —
l.c.l., works lb. .0435- .0960
tanks, works 100 lbs. 2.80 - —
NF, gran. dms., works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. .1540- —
l.c.l., works lb. .1640- .1890
Aluminum fluoride, in fib. dms., 0.35c. per lb. higher.
Formate, basic solution, cbys. lb. .09½- —
l.c.l. works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald. ton. 60.00 - —
l.c.l., works ton. 65.00 - 85.00
light bgs. dlvd lb. .17 - —
Hydroxide, gel., pharmaceutical, 14-15% Al_2O_3, fib dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib., dms., works lb. .82½- —
contract, works lb .79½- —
tech., powder (see Aluminum hydrate).
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .21½- —
pigs, 10,000-lb. lots, frt. alld. lb. .20 - —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms lb. .63½- —
standard, dms. lb. .43 - —
Powder, lining, extra fine, dms lb. 1.02½- —
standard, dms lb. .72 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb for 50-lb dm., 3c. per lb. for 10-lb. can and 5c. to 12c. per lb for smaller containers. Deduct 1c. per lb for single shipment of 400 to 1,499 lbs., 2c for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over.

Resinate, precip., dms., frt. alld. lb. .27½- —
Stearate, dibasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
monobasic, ctns., c.l. lb 33 - —
l.c.l. lb. .34 - .37
tribasic ctns., c.l. lb. 33 - —
l.c.l. lb. .34 - .37

Aluminum sulfate, coml., bulk., c.l., works 100 lbs. 1.85 - —
ground, c.l., bgs., works ton. 37.00 - —
lump, c.l., bgs., works ton. 40.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.55 - —
l.c.l., works, frt. equald 100 lbs. 3.95 - —
USP, gran., dms., works lb. .16 - .18
powd., dms., works lb. .22 - .24
Trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 8.00 - 10.00
Aminoazotoluene, tech., bbls lb. 1.03 - 1.18
o-Aminobiphenyl, dms., c.l., works, lb. .32½- —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .46½- —
l.c.l. dlvd. lb. .45 - —
tanks, dlvd lb. .45 - —
2-Amino-2-methyl-1-propanol, cns., dms., works lb. .60 - —
m-Aminophenol, distilled, dms., ton lots lb. 2.05 - —
smaller lots lb. 2.50 - —
p-Aminophenol, dms., frt. alld lb. .97 - .98
Aminophylline, USP, 100-lb. dms. lb. 3.55 - —
Aminopyrine, USP, bots., dms. lb. 4.75 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald ton. 85.00 - 88.00
pure cyls., extra, zone 1 lb. .18½- —
2 lb. .19 - —
3 lb. .19¼- .20
4 lb. .20 - —
5 lb. .21 - —
refrigeration tanks, works, frt. equald ton. 87.50 - 90.50
Aqueous (29.4% NH_3), dms., c.l., dlvd., Met area 100 lbs. 3.60 - —
l.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis. ton. 96.00 - —
Ammoniac, sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 8.65 - 11.15
white, gran. (see Ammonium chloride, tech.)
Ammoniacal liquor, tankcars, works, anhyd. basis ton. 96.00 - —
Ammonium acetate, purified, dms. lb. .38 - —
Benzoate, USP, dms., kgs., 4,000-lb. lots, frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, bbls., c.l., works ton. 312.00 - —
ton lots, ex whse ton. 375.00 - —
smaller lots, ex whse ton. 380.00 - —
Bicarbonate, dom., dms., c.l., works 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 7.50 - —
imported dms. l.c.l lb. .37¼ .03¼
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd. lb. .2145- .2245
Bromide, NF, gran., bbls lb. .38 - .39
dms. lb. .39 - .42
Powdered ammonium bromide 10c per lb higher
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech., white granular, bgs., c.l., works 100 lbs 5.25 - —
l.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms lb. .17¼- —
Citrate, dibasic bbls lb. 75 - —
dms lb. 80 - 85
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia, aqueous).
Hypophosphite, NF, dms lb. 2.40 - —
Iodide, NF, dms., bots lb. 4.26 - 4.38
Linoleate, 80% dms. works lb. .50 - .55
Nitrate, fertilizer grade, dom., 33.5% N, bgs., western, works ton. 68.00 - 70.00
Ammonium nitrate, fertilizer grade, with dolomite, 20.5%N, bgs., Hopewell, Va ton. 51.00 - —
imported, Canadian, 33.5% N, eastern, bgs., c.l., shipt. point ton. 77.50 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton. 89.84 - —
Oxalate, fine gran., dms lb. .26½- .31
Pentaborate, gran., bbls., c.l., works ton. 222.00 - —
ton lots ex whse ton. 285.50 - —
smaller, lots, ex whse ton. 290.00 - —
Ammonium pentaborate powder, $10 per ton higher
Perchlorate, kgs., works lb. .50 - .75
Persulfate, kgs lb. .38 - —
Phosphate, coml., bgs., c.l., works, frt. equald lb. .0865- —
l.c.l., same basis lb .09 - —
dibasic, NF V bois. dms lb. .45 - —
tech., bgs. c.l works, frt. equald lb. .0865- —
l.c.l., same basis lb. .0915- —
Salicylate, NF, dms., kgs lb. 1.62 - 1.64
Silicofluoride dms works lb. .11 - .12
Sulfamate, bbls., dms., works lb. .18 - .20
Sulfate, coke-oven, bulk, producing ovens ton. 42.00 - 47.50
synthetic, bgs. c.l. western works ton. 46.50 - —
bulk, works ton. 42.00 - —
purified, dms., works lb .08½- .10
Sulfide, liq., 40-44%, dms., c.l., frt. equald., 100% basis. ton. 240.00 - —
l.c.l., 100% basis, works. ton. 309.00 - —
tanks, 100% basis, frt. alld. ton. 180.00 - —

When you need
Ethyl Alcohol
your dependable source is
Shell Chemical
. . . FROM A DRUM TO A TANK CAR
. . . AS CLOSE AS YOUR TELEPHONE
. . . IN ALL MAJOR FORMULATIONS

To SERVE YOU PROMPTLY, Shell Chemical has established complete denaturing plants in key industrial centers.

Shell Chemical's ethyl alcohol is of the highest quality, meeting or surpassing all Federal and commercial specifications for purity. It is available as pure alcohol (190 proof), in specially and completely denatured grades, as well as in two proprietary solvents—Neosol® and Neosol A.

Next time you need ethyl alcohol, remember that Shell Chemical bulk distribution facilities are as close as your telephone . . . ready to make the fastest possible delivery . . . in drums, tank trucks, compartment trucks, tank cars or compartment tank cars.

• • •

Your Shell Chemical representative will be glad to discuss your alcohol supply problem with you. Write or phone your nearest Shell Chemical office. Send for "Organic Chemicals," SC:53-18, a catalog of our complete line of other solvents, intermediates and resins.

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CHEMICAL PARTNER OF INDUSTRY AND AGRICULTURE
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Ammonium Sulfocyanide—Bismuth Subgallate

Ammonium sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate tech., dms., c.l., works lb. .20 - —
l.c.l., works lb. .22 - .28
Thioglycollate, coml., cbys., 100% basic lb. 1.60 - —
highly purified, cbys., 100% basis lb. 1.70 - 1.96
Thiosulfate, cryst., photo grade, fib dms., frt. alld lb. .65 - —
60% solution, dms. c.l. works lb 06½ - —
d-Amphetamine hydrochloride dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-monobasic, bots lb.28.00 - —
d-Phosphate, dibasic, bots lb.28.00 - —
dl, cms lb. 6.00 - —
d-Sulfate, dms lb 28.00 - —
dl, dms lb. 6.00 - —
Amyl acetate, ex fusel oil, tech., frt. alld. E of Rockies lb. .17 - —
l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
ex pentane, regular dms., c.l., dlvd lb. .17 - —
l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
technical, dms., c.l., dvld lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
Alcohol (see Alcohol amyl).
n-Butyrate, dms lb. .90 - 1.25
Cinnamic aldehyde, dms lb. 1.70 - 2.00
Nitrite, USP, bots lb. 1.75 1.83
Salicylate, cns., dms lb. .74 1.05
o-tert-Amyl phenol, dms., c.l., works lb. .43¾- —
l.c.l., works lb. .46¾- —
tanks, works lb. .41¾- —
p-tert-Amyl phenol, dms., c.l., works. lb. .24¾- —
l.c.l., works lb. .25¾- —
tanks, works lb. .23¾- —
Anethole, NF, cns., dms lb. 1.25 - 1.55
tech., dms lb. .75 - 1.20
Angelica root, dom., bls lb. .60 - .70
Aniline oil, dms., c.l., works, frt. alld. lb. .21 - —
l.c.l., works, frt. alld lb. .22 - —
tanks, works, frt. alld lb. .20 - —
Salt, dms, frt. alld lb 33 - —
Anise, Mexican, bgs lb. .22 - —
Spanish, bgs. lb. .28 - —
Syrian, bgs lb. .20 - .21
Anisic aldehyde, bots., dms lb. 1.80 - 2.70
o-Anisidine, dms., works lb. .88 - —
p-Anisidine, dms., works lb. .97 - —
Annatto seed whole, bgs lb 24 - —
powd., dms. lb. .28 - —
Anthracene 90-95% bbls., ton-lots, works lb. .70 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5%, bbls., frt. alld lb. .88 - —
Antimony butter (see Antimony trichloride)
Metal, bulk, c.l., mines lb. .28½- —
cases, c.l., mines lb. .29 - —
Oxide, bgs., c.l., frt. alld lb. .26 - —
l.c.l., frt. alld lb. .27½- —
Sulfide, approx. 60%, bgs., dlvd. lb. .27 - .30
Trichloride, anhyd., pails, c.l., works lb. .38½- —
l.c.l., works lb. .40½- —
Antimony potassium tartrate, tech., gran. or powd., dms lb. .56 - .59
USP, powd., dms lb. .61 - .62
Antipyrine, NF, dms lb 2.50 - 2.70
Apomorphine hydrochloride, USP, bots oz.23.40 -23.90
Areca nuts, powd., bbls lb. .15 - .16
Arecoline hydrobromide, NF, bots, tins oz. 4.50 - 6.00
l-Arginine monohydrochloride, dms., 1-kilo lots kilo.74.80 -83.00
Argols, min. 50%, bgs shipments ports per 100 kilos, 100% basis.24.50 - —
Arnica flowers (true montana), bls. lb. 2.00 - —
Arsenic metal, lump, bbls., prompt ship't lb. .60 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l. dlvd. lb. .06½- .07½
Asafetida, cs. lb. .36 - .39
powd., bbls., dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.1,300.00- —
No. 2, c.l. (20 tons), mines ton.675.00 - —
Run-of-mine, c.l., (20 tons), mines ton.556.00 - —
3K, c.l. (20 tons), mines ton.436.00 - —
3R, c.l. (20 tons), mines ton.371.00 - —
3T, c.l. (20 tons), mines ton.348.00 - —
3Z, c.l. (20 tons), mines ton.321.00 - —
4K, c.l. (20 tons), mines ton.173.00 - —
4M, c.l. (20 tons), mines ton.173.00 - —
4T, c.l. (20 tons), mines ton.156.00 - —
4Z, c.l. (20 tons), mines ton.156.00 - —
5D, c.l. (20 tons), mines ton.122.50 - —
5K, c.l. (20 tons), mines ton.122.50 - —
5M, c.l. (20 tons), mines ton.116.50 - —
5R, c.l. (20 tons), mines ton.110.00 - —
6D, c.l. (30 tons), mines ton.78.00 - —
7D, c.l. (30 tons), mines ton.68.50 - —
7F, c.l. (30 tons), mines ton.65.00 - —
7H, c.l. (30 tons), mines ton.55.00 - —
7K, c.l. (30 tons), mines ton.46.00 - —
7M, c.l. (30 tons), mines ton.40.00 - —
7R, c.l. (30 tons), mines ton.39.00 - —
7T, c.l. (30 tons), mines ton.37.00 - —
Asbestos, Canadian, crude, 7RF, c.l., (30 tons), mines ton.40.00 - —
7TF, c.l. (30 tons), mines ton.40.00 - —
8S, c.l., (30 tons), mines ton.27.00 - —
Asbestos c.l. prices are in U. S. funds. L.c.l. lots, $4 per ton higher.
Asphalt, gilsonite, black, jet, bgs., c.l., mines ton.37.00 - —
select, 350°F., fusing point, bgs., c.l., mines ton.38.00 - —
270°-285°F. fusing point bgs., c.l., mines ton.37.00 - —
seconds, 300°-390°F. fusing point, bgs., c.l., mines ton.32.00 - —
Manjak, No. 10, crude, dms., works lb. .06½- —
Petroleum, cut-back, tanks, tankwagon, refinery gal. .09 - —
emulsion, tanks, tank wagon refinery gal. .09½ .10
steam-refd., less than 80 penetration, tanks, tankwagon refinery ton.21.00 - —
80-300 penetration, tanks, tankwagon, refinery ton.20.00 - —
Aspirin (see Acid, acetylsalicylic).
Atropine, USP, bots oz. 7.00 - —
Sulfate, USP, bots oz. 4.00 - —

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45
Barberry root, bark, bags lb. .28 - .30
Barbital, USP, 100-lb. dms lb. 4.50 - —
Sodium, USP, dms lb. 4.75 - 4.77
Barium carbonate, precip., bgs., c.l., works ton.92.50 - —
smaller lots works ton 102.50 - —
Chlorate, kgs., works lb .32 - .36
Chloride, anhyd. bgs., c.l., works ton 158.00 - —
l.c.l. works ton 168.00 - —
cryst., tech., dms., c.l., works, 100 lbs. 6.00 - —
l.c.l., works 100 lbs. 6.50 - —
NF, cryst., dms lb. .18 - —
Chromate, bgs. frt. equald lb. .35 - —
Dioxide (see Barium peroxide).
Hydrate, cryst., bgs ton.190.00 -200.00
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .12½- —
l.c.l., works lb. .14 - —
Oxide grd., dms., c.l., frt. equald. ton.255.00 - —
l.c.l. works ton.265.00 - —
Peroxide, dms., works lb. .16 - —
Stearate, cns., c.l., frt. alld lb. .37 - —
l.c.l., same basis lb. .38 - .42
Sulfate, tech. (see Barytes and Blanc fixe).
X-ray, dms lb .14 - .14½
Sulfide, dms., c.l., works ton.85.00 - —
l.c.l., works ton 95.00 - —
Barytes, Southern off-color, bgs., mines ton.25.00 - —
95.75%, bgs., mines ton.25.00 - —
water-grd., paper bgs., c.l., E. St. Louis ton.41.60 - —
ex-whse. N. Y. ton.60.10 - —
Bauxite, bulk, mines ton. 9.50 -10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. 28 - .32
root, bls lb. 45 - .50
Bentonite, dom., 200 mesh bgs., c.l., mines ton.14.00 - —
imported, Italian white high gel., bgs., 5 ton-lots, ex-whse ton.80.60 - —
1 ton-lots, ex whse ton 83.10 - —
low gel, bgs., 5 ton-lots, ex-whse ton.78.95 - —
1 ton-lots, ex whse ton 81.45 - —
Benzal chloride, cbys., works lb. .22 - .23½
Benzaldenyde, NF, dms lb. .74 1.05
tech., cbys. dms lb. .44 - —
Benzene (see Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., bgs., dms., c.l. works, gamma unit-lb. .009 - .01
l.c.l., works, gamma unit-lb. .015 - —
wet dust, distributors, dms., c.l., dlvd., gamma unit-lb. .02 - —
l.c.l., dlvd., gamma unit-lb. .021 - —
Benzidine hydrochloride, bbls., frt. alld., 100% basis lb. 1.00 - —
Benzocaine, dms lb. 3.48 3.50
Benzol, pure or nitration, tanks, works
Bethlehem, Pa gal. .40 - —
Birmingham district gal. .40 - —
Chicago district gal. .40 - —
Cleveland district gal. .40 - —
Geneva, Utah gal. .40 - —
Johnstown, Pa gal. .40 - —
Lackawanna, N. Y. gal. .40 - —
Lone star, Texas gal. .40 - —
Lorain, Ohio gal. .40 - —
Minnequa Colo gal. .39 - —
Philadelphia district gal. .40 - —
Pittsburgh district gal. .40 - —
Sparrows Point, Md. gal. .40 - —
Syracuse, N. Y. gal. .40 - —
Terre Haute, Ind. gal. .40 - —
Youngstown, Ohio gal. .40 - —
Benzophenone dms lb. 1.40 1.70
Benzonitrile, dms., c.l., works lb. .46¾- —
l.c.l., works lb. .47 - —
Benzotrichloride, cbys., frt. equald. lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald. lb. .22 - —
l.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .20 - —
Peroxide, pure, fib. cns., works. lb. .90 - 1.05
Benzyl acetate, f.f.c., cns., dms lb. .62 - 1.04
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms lb. .62 - 1.10
Chloride, tech., cbys., dms., c.l., works, frt. equald lb. .20½- .23½
l.c.l., same basis lb. .21½- .24½
High grade benzyl chloride, 2c. higher.
Cinnamate, cns. lb. 3.35 - 3.90
Formate, cns. lb. 1.30 - 2.10
Propionate, bots. lb. 1.35 - 1.65
Salicylate, bots. lb. 1.50 - 1.85
Benzylidine acetone, bots lb. 1.68 - 1.80
Chloride (see Benzal chloride).
Benzyl isoeugenol cns lb. 8.60 - 9.10
Berberine bisulfate, cns lb.35.00 -36.25
Hydrochloride, bots lb.35.00 -36.25
Betagammapicoline (see b.g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine)
BHC (see Benzene hexachloride, technical).
Biotin cryst., bots gram.10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, jars lb. 5.11 - —
Hydroxide, dms. lb. 4.65 - —
Metal, bxs., ton lots lb. 2.25 - —
Nitrate, cryst., dms lb. 2.10 - 2.17
Oxide, anhydrous, dms lb. 4.47 - 5.05
Oxychloride, dms. lb. 4.37 - 4.42
Phenolsulfonate, fib. dms lb. 5.22 - —
Subcarbonate, USP, dms lb. 3.20 - —
Subgallate, NF, fib. dms lb. 3.15 - —

NOW your products can stay fresh longer!

Stability Tests After 52 Weeks' Warehouse Storage Prove Armour's Double Pressed-Type Stearic Acid Gives Extra Life to Products, More Profits for You!

Armour's double pressed-type stearic acid, Neo-Fat® 18-54, insures longer life for your products because of its exceptional color and heat stability through all phases of production and storage. In fact, peroxide indices of Neo-Fat 18-54, taken immediately after production, and periodically during 25 weeks' warehouse storage, showed values of less than 0.1%! To substantiate this, samples of shipments sent to customers *over a year ago* were recently recalled to measure the peroxide value. Results again show less than 0.1%. This stability means that soaps, shaving creams, cosmetics, pharmaceutical preparations, and other products made with Neo-Fat 18-54 will stay fresh through shelf-life and consumer use.

Armour produces this superior double pressed-type stearic acid by an exclusive low temperature solvent crystallization process. Since the solvent is non-reactive with the fatty acid, Neo-Fat 18-54 becomes an ester-free material containing the good color, stability and uniformity so important in manufacturing your products.

Neo-Fat 18-54 is packaged in flat-lying, easily handled 50-pound multiwall bags which can be palletized as high as 3 skids. Write Armour for booklet, samples, or trial 50-pound bag of Neo-Fat 18-54!

ARMOUR CHEMICAL DIVISION

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Bismuth subiodide, fib, dms....lb. 5.37 - —
Subnitrate, NF, dms.....lb. 2.65 - —
Subsalicylate, USP, dms.....lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Black, acetylene, bgs., c.l., works.lb. .17 - —
cs., l.c.l., shipt. point.....lb. .22½- .26
Ash (see Barium sulfide).
Bone, dms., l.c.l., frt. alld....lb. .15½ .22
Pacific coast bone black prices, 2c. per lb higher
Carbon, channel, pigment, high color, beads, ctns., c.l., works. lb. .72 - —
l.c.l., dlvd. or whse.lb. .78 - —
medium color, uncompressed, bgs., c.l., works lb. .12 - —
l.c.l., dlvd. or whse.lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works ..... lb. .074 - —
.c.l., works ..... lb. .1225- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse ... lb. .10 - —
high abrasion, bulk, c.l., works. lb. .0750- —
bgs., c.l., works ... lb. .0790- —
l.c.l., dlvd. or whse lb. .122 - .125
high modulus, bgs., c.l., works. lb. .0550- —
ctns., l.c.l., whse ... lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., cns., l.c.l., whse.. lb. .085 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Black, iron oxide, pure, bgs., c.l., works .lb. .12¼- —
l.c.l., works ..... lb. .13 - —
Lamp, bgs., c.l., works..... lb. .16 - .45
Mineral, bgs., works ..... lb. .0160- .0675
Blackberry root bark, bls ..... lb. .50 - —
Black haw root bark, bls ..... lb. .65 - .70
tree bark, bls ..... lb. .40 - .45
Blanc fixe, dry, byproduct, bgs. c.l., works ton.190.00 - —
l.c.l., works ..... ton.200.00 - —
direct process, bgs., c.l., works. ton.100.00 - —
l.c.l., works ..... ton.110.00 - —
N. Y. whse.....ton.140.88 -165.00
pulp, 70%, bbls., c.l., works. ton.105.00 - —
l.c.l., works..... ton 115.00 - —
Bleaching powder, dms., c.l., works. 100 lbs. 5.02 - —
l.c.l., works ..... 100 lbs 6 52 - —
Blood, dried, 16-16½% ammonia, bgs. unit-ton. 8.00 - —
high-grade unground, 16-17% ammonia, bgs., Chicago. unit-ton. 8.00 - —
soluble, bgs., c.l..... lb. .17 - .19
l.c.l. ..... lb. .18 - .25
Bloodroot, bls ..... lb. .60 .65
Blue alkali, dry, bbls., dlvd. N. or Tenn and N C., & of Miss R. including St Paul Minneapolis, Davenport Rock Island, St. Louis lb 2.00 - —
toner bbls. litho flushed same basis lb 1.25 - —
Chinese, bbls., same basis ... lb. .48 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
Imitation (see Blue ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA, bbls., same basis lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb. 3.85 - —
Milori, bbls., same basis ... lb. .48 - —
Peacock, fugitive, 100% color strength, bbls., same basis lb .75 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .48 - —
soluble, bbls., same basis lb. .40 - —
Soda, CP, bronze, bbls., same basis lb. .56 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis, lb. .16½- .18½
regular types, dry, bbls. same basis lb. .22½- .35
Victoria toner, molybdic, PMA, bbls lb. 4.10 - —
tungstated, PTMA, bbls .....lb. 5.00 - —
Blue dry colors, dlvd prices 1/2c higher Ala., Fla., Ga., La (Shreveport 1¼c), Miss., N. C., S. C., Tenn., Tex (El Paso 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1 6c higher, Pac Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago
Blue vitrol (see Copper sulfate).
Bluestone (see Copper sulfate).
Bonemeal, steamed, works, E..ton.60.00 - —
Los Angeles, works ..... ton.82.00 - —
Bone phosphate defluorinated (see D)
of lime (see Calcium phosphate, tribasic).
precipatated (see Calcium phosphate tribasic, NF, precip.).
Borax, tech., anhyd., bgs., c.l., works. ton.78.00 - —
ton lots ex whse N Y or Chicago..ton.125.75 - —
bulk, c.l., works ton.70.00 - —
crystals, 99%, bgs., c.l., works. ton.67.25 - —
ton lots, ex-whse., N. Y. or Chi ton.115.00 - —
smaller lots, same basis. ton.120.00 - —
gran., decahydrate, 99½%, bgs., c.l., works ton.41.25 - —
ton lots, ex whse., N Y Chi ton.89.00 - —
smaller lots, same basis. ton.94.00 - —
bulk, c.l., works .... ton.33.75 - —
pentahydrate, 99½%, bgs., c.l., works ton.55.50 - —
ton lots, ex whse, N.Y., Chi ton.108.25 - —
smaller lots, same basis. ton.103.25 - —
powder., 99½%, bgs., c.l., works ton.46.25 - —
ton lots, ex-whse., N. Y. or Chi. ton.94.00 - —
smaller lots, same basis. ton.99.00 - —
Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher USP borax $15 per ton higher.
Bordeaux mixture, bgs., c.l., works, frt alld. or nearest whse. point lb. .18 - .24
l.c.l. same basis..... lb. .19 - .26
Borneol, cns. ..... lb. 2.50 - 4.50
Borontrifluoride gas, cyls., truckload, works lb. .62 - —
less truckload, works.....lb. .70 - —
Brazilwood extract (see Hypernic extract)
Brimstone (see Sulfur).
Bromine, purif., cs., c.l., dlvd. E. of Rockies lb. .27 - —
l.c.l. up to 1,000-lb. lots, same basis lb. .29 - —
dms. lead-lined, dlvd ..... lb. .34 - —
Bromoform, pharmaceutical grade, bots lb 1.62 2.60
cbys. ..... lb 1.52 —
Bromstyrol bots ..... lb. 5.40 5.70
Bronze powder aluminum (See A).
Brown iron oxide, pure, bgs., c.l., works lb. .13¾- —
l.c.l., works lb. .14 - —
Oxide, metallic, bgs, works .. lb. .04 - —
Sienna, burnt, paper bgs., c.l., works lb. .04¼- .15¼
l.c.l., works lb .04½ 15½
raw, paper bgs, c.l. works lb 04½ 13
l.c.l works lb 04¾ 13¼
Umber, burnt, American, bgs., c.l., works lb. .06 - —
l.c.l., works lb 06¼ 07
Turkey type bgs c.l. Boston Bethlehem Easton Pa. Hiwassee, Va. N Y lb .06¾- —
l.c.l., works lb. .07 - —
raw, American bgs works lb 06¼ 06½
Turkey-type bgs. works lb .06¾ .07
Vandyke bbls works lb .09½ 12
Brucine, ens., 100-oz lots oz. .23 .35
Sulfate, NF, ens., 100-oz. lots lb. .15 .30
Buchu leaves, bls ..... lb. .50 - —
Butadiene refined, cyls. refinery lb .22 - —
tanks, refinery lb. .15 - —
Butane, indust., tanks, group 3 gal. .03 - —
n-Butyl acetate, fermentation, dms., c.l., frt. alld lb. .15 - —
l.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .13 - —
Butyl acetate, n-synthetic, dms., c.l., dlvd. E. lb. .15 - —
l.c.l., same basis..... lb. .16 - —
tanks, same basis..... lb. .13 - —
sec-synthetic, dms., c.l., dlvd. E. lb. .12½- —
l.c.l., same basis..... lb. .13¼- —
tanks, same basis..... lb. .10¾- —
Alcohol (see Alcohol n-Butyl).
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works..... lb. .37½- —
l.c.l., works ..... lb. .38 - —
n-Ether, dms., c.l., works..... lb. .31½- —
l.c.l., works..... lb. .32 - —
tanks, works ..... lb. .30 - —
Lactate dms., c.l. frt. alld. E. of Rockies lb. .35 - —
l.c.l., same basis..... lb. .36 - —
tanks same basis ..... lb .33 - —
Laurate, dms., works..... lb. .39 - —
Methacrylate normal, dms. less truckloads works lb .70 - —
Oleate, refd., dms., l.c.l., works.lb .32 - —
Phenylacetate dms lb 4.50 4.60
Phthalate (see Dibutyl phthalate).
Stearate dms. l.c.l. frt equald lb. .24 - .27
Butylamine (see mono-di-, and tri-).
6-tert-Butyl-m-cresol, dms., c.l., works lb. .49 - —
l.c.l., works ..... lb. .50 - —
tanks, works ..... lb. .48 - —
p-tert-Butylphenol, bgs., c.l., works. lb. .25½- —
l.c.l., works ..... lb. .26½- —
Butyraldehyde, dms., c.l., dlvd lb. .21½- —
l.c.l. dlvd ..... lb. .22½- —
tanks, dlvd ..... lb. .19½- —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter)
Cadmium iodide, 25-lb. fib. dms lb. 6.75 - 7.05
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Caffeine, natural, USP, cryst., dms., 100-lb. lots or more..lb. 2.90 - —
anhydrous, dms ... lb. 3.10 - —
syn., hydrous, dms., 100-lb. lots or more lb. 2.90 - —
anhydrous, dms. 100 lbs or more lb. 3.10 - —
citrated, USP, dms., 100-lb. lots or more..lb. 2.80 - —
Calamine, USP, dms .. lb. .34 —
Calciferol cryst, vials, 1 kilo lots, works gram. .75 - —
25 to 100 gram lots, works. gram. .80 - .90
in edible oil (see Viosterol).
Calcium p-aminosalicylate, fib., dms., 1,000 lb. lots, frt. adj. lb. 7.00 - —
smaller lots, same basis .. lb. 7.05 - 7.50
Arsenate, dealers, dms., c.l., whse works, frt. alld on 96 lbs or over lb .09 .10
l.c.l., same basis ..... lb. .10 - —
Bromide, NF, jars ..... lb. .90 - .97
Carbide, standard generator size, dms. c.l., dlvd ton.134.40 —
Carbonate, natural, dry-grd., air floated, 99.5%—325 mesh, bgs., c.l., works ton. 7.50 - 10.00
chalk, whiting, 325 mesh, bgs., works ton.32.00 -34.00
water-grd., ½ to 10 microns, bgs c.l. works ton.30.00 —
10 to 20 microns, bgs., c.l., works ton.17.00 -18.00

20° and 22° Baumé Water White and Commercial Grades Available in Tank Car Quantities from Niagara Falls, New York

20° Baumé Commercial Grade Muriatic Acid is also available for prompt tank car shipments from Carlsbad, New Mexico.

specifications

20° and 22° Baumé Water White Grade

COLOR.....WATER WHITE
IRON.....0.0001% MAXIMUM
FREE CHLORINE.....NONE
ARSENIC.....NONE
INORGANIC SALTS..0.010% MAXIMUM
SULFATES.....0.001% MAXIMUM
ORGANIC MATTER.0.0002% MAXIMUM
SUSPENDED MATTER.....NONE

MURIATIC ACID

International's Muriatic Acid is produced from inorganic materials and, at the Niagara Falls Plant, is made directly by burning hydrogen with chlorine. You can be sure of the purity, quality and consistency of grade to specifications. Muriatic Acid, in the grade and quantity you require, is available for prompt shipments. We shall be glad to send samples on request.

International MINERALS CHEMICALS

MINING·REFINING·MANUFACTURING CAUSTIC POTASH—*all standard grades;* CARBONATE OF POTASH—*all standard grades;* POTASSIUM CHLORIDE—*refined and technical grades;* SULFATE OF POTASH; LIQUID CHLORINE; MURIATIC ACID.

INTERNATIONAL MINERALS & CHEMICAL CORPORATION

Address all inquiries to Industrial Sales Dept., Potash Division
General Offices: 20 North Wacker Drive, Chicago 6
61 Broadway, New York 6 • Midland, Texas

Calcium Carbonate, Precip., Dense—Chloroform

Calcium carbonate, precip., dense, bgs., c.l., works ton 30.00 -33.00
l.c.l., works ton 40.00 -48.00
medium, bgs., c.l., works ton 35.00 - —
l.c.l., works ton 45.00 -50.00
surface treated, bgs., c.l., works ton 35.00 -50.00
l.c.l., works ton 45.00 -65.00
ultrafine, bgs., c.l., works ton 110.00 160.00
l.c.l., works ton 120.00 175.00
Chloride, cryst., purified, dms lb. .27 - —
base (75-80% paper bgs. c.l. works, frt. equald ton 27.00 - —
liquor, 40%, tankcars works frt. alld ton 11.35 - —
pellets, bgs., c.l., works ton 33.00 - —
powder, bgs., c.l., works ton 37.65 - —
solid, 73-75% dms c.l., frt equald ton 25.50 - —
l.c.l. works, same basis ton 34.00 -71.00
USP, gran., dms lb. .40 - —
Chromate bgs. frt equald lb. 29½ .30
Cyanide dms. dlvd. E of Rockies lb. .24 .50
Gluconate, AA bbls. dms lb. .70 .72
USP, bbls. dms lb. .53 .65
Glycerophosphate, NF, fib. dms lb. 2.30 - 2.45
Hydride, dms., works lb. 2.15 - 3.00
Hypochlorite, high test, cased (45 lbs.), dlvd. E of Rockies cs. 22.60 -24.75
dms., 100-lb., same basis dm. 28.65 -32.50
Hypophosphite, dms., ton lots or less lb .90 .93
Iodide, jars lb 4.52 - —

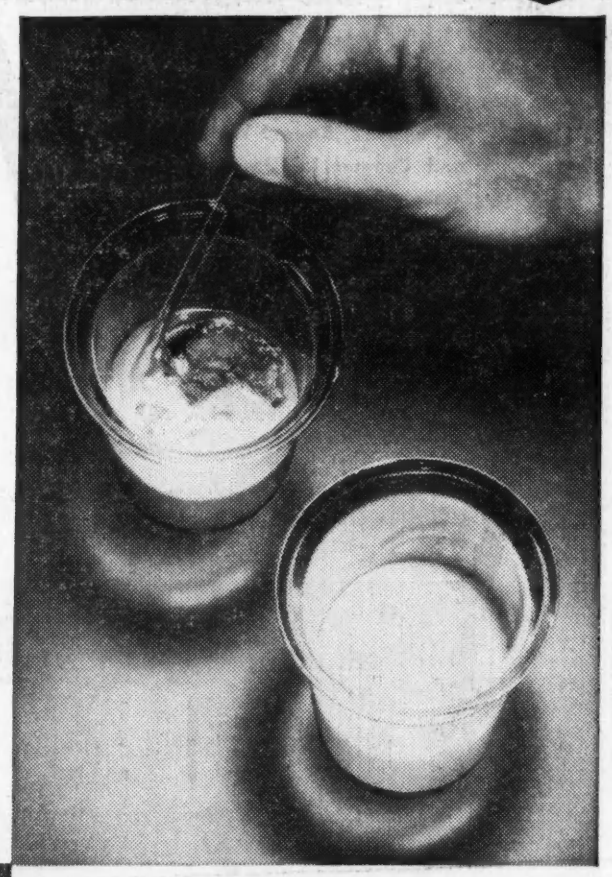
Calcium lactate, USP, dms., 10,000-lb. lots or more, works lb. .40 - —
smaller lots, works lb. .41 - .48
Mandelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, liq. 4% Ca, dms., frt. equald lb. .27½- —
Nitrate, fertilizer grade, bgs., c.l., Los Angeles ton 48.00 - —
tech., dms., works lb. .13 - —
d-Pantothenate, jars, 100-gram lots or more, frt. adjusted, gram .07½- —
Para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms. lb. .70 - —
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 7.10 - —
l.c.l. 100 lbs 7.60 7.98
feed grade, bgs., c.l., works, ton 74.00 -84.00
l.c.l., bgs., works ton 85.00 -95.00
monobasic, bgs. 10,000-lb lots, works, frt. equald 100 lbs. 6.05 - —
smaller lots, same basis, 100 lbs. 6.55 - —
tribasic, precip., NF bgs., c.l., works 100 lbs. 7.60 - —
l.c.l. works 100 lbs. 7.95 - —
Phytate, bgs., works lb. .37 - —
Resinate, precip, dms., frt. alld., works lb. .27¾- —
Silicate, hydrated, bgs., c.l., works, lb. .06 - —
l.c.l. works lb. .06½- —
Stearate, ctns., c.l. lb. .35 - —
l.c.l. lb. .36 - .40
Sulfate (see Gypsum).
Calomel, USP, powd., dms lb. 4.97 - —

Camphene 46° m.p., dms., incl., c.l., works lb. .10½- —
l.c.l., same basis lb. .12 - .20
tanks, same basis lb. .08 - —
Chlorinated, 67-69% (see Toxaphene).
Camphor monobromated, NF, dms., kgs lb. 3.00 - 3.12
natural, USP, powd., cs., 100-lb. lots lb. .60 - .65
tablets, 1-oz., ½-oz. cs lb. .75 - .80
synthetic, tech., 1 bbl. or more lb. .49 - —
USP, gran., powd., bbls, 2,000-lb. lots lb. .54 - —
1,000-lb. lots lb. .55 - —
smaller lots lb. .56 - —
tablets, tins, 2,000-lb. lots lb. .85 - —
1,000-lb. lots lb. .86 - —
smaller lots lb. .87 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb 2.00 - 2.05
powd., bxs. lb 2.25 - 2.30
Russian, bgs. lb 4.00 - 4.05
powd. bxs. lb 4.35 - 4.40
Capsicum (see Pepper, red).
Oleoresin NF from domestic pepper, dms. lb. 4.50 - 5.25
from African pepper, dms. lb. 4.35 - 5.00
Caraway seed, Dutch, bgs. lb. .16 - .16½
Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —
Carbinol, methyl isobutyl (see Methyl isobutyl-carbinol).
Carbon dioxide, industrial, wholesale, bulk ton 73.00 -115.00
cyls. lb. .08 - —
solid lb. .035 - .040
Disulfide, 55-gal. dms., c.l., works, frt. alld. to competitive points lb. .0750- —
l.c.l., same basis lb. .0850- —
5-gal. dms., c.l., same basis lb. .1025- —
l.c.l., same basis lb. .1125- —
tanks, same basis lb. .0525- —

Carbon tetrachloride, CP, dms., works lb. .11 - .13¾
NF, chys lb. .17 - .18
tech., dms., c.l., E of Rockies, frt. alld lb. .0950- —
W. of Rockies, f.o.b., stockpoints lb. .10 - —
l.c.l., E. of Rockies, frt. alld. alld lb. .11¼- —
W. of Rockies, f.o.b. stockpoints lb. .11¾- —
tanks, E. of Rockies, frt. alld. lb. .085 - —
W. of Rockies, f.o.b. stockpoints lb. .09 - —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
smaller lots, works lb 4.10 - 4.75
Cardamom fruit, fancy, bleached, A, cs. lb. 3.95 - —
medium, cs lb. 3.70 - —
decorticated, Alleppey, cs. lb. 1.85 - —
Guatemalan, cs lb. 1.80 - —
green, Alleppey, bgs. lb. 1.85 - —
Ceylon, bgs. lb. 1.85 - —
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100 lb. lots or more, dlvd lb. 6.50 - —
smaller lots, dlvd lb. 6.65 - 7.15
Carotene, technical, 1,350,000 A units per gram, tins, works gram. .55 - —
in carrot oil, 5,000,000 to 8,000,000 A units, per lb., dms., works million units. .18 - —
microcrystalline in oil, 400,000 A units per gram, tins, works million units. .33 - —
Carvol, bots. lb. 4.75 - 9.65
Cascara sagrada bark, bulk lb. .36 - —
Casein, dom., acid precip., standard, bgs., 10,000-lb. lots or more, ship't point lb. .27 - .30
premium, bgs., 10,000-lb. lots or more, ship't point lb. .35 - .40
imported, Argentine, acid-precip., grd., 100-lb. lots or more, duty paid lb. .25½- .26
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls. lb. .15½- —
longstick, cracked, bls. lb. .17½- —
shortstick, cracked, bls. lb. .16½- —
Saigon, broken, bls. lb. Nominal
medium, bls. lb. .85 - —
thin, bls. lb. .90 - —
Castor beans, bgs., f.o.b. Brazilian ports long ton 115.00 - —
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton 27.00 Nom.
Castoreum, syn., cns lb. 9.00 - —
natural, cns lb. 5.00 -30.00
Catechol, CP, cryst., fib. dms., works lb 2.17½- —
resublimed, dms., works lb. 4.29½- —
Catnip leaves, Southern, bls. lb. .75 - —
Celery seed, French, bgs. lb. .45 - .47
Indian, bgs. lb. .17 - .17½
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, powd., ctns., bgs., 100-lb. lots or more, dlvd. E lb. .35 - .46
Butyrate, powd., 17% butyryl content, bgs., works lb. .54 - —
27% butyryl content, bgs., works lb. .64 - —
38% butyryl content, bgs., works lb. .54 - —
50% butyryl content, bgs., works lb. .63 - —
Cerium hydrate, 74% CeO_2, fib. dms., 100-lb lots or more lb. 1.44 - —
77% CeO_2, fib dms., 100-lb. lots or more lb. 1.74 - —
Oxalate, NF, bbls., bgs., works lb. 1.05 - —
Oxide, optical grade, bgs., 50-lb. lots or more, works lb. 1.85 - 1.98
smaller lots works lb. 2.03 - 2.23
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, cs lb. .70 - .75
Roman cs lb. 1.00 - 1.15
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½- .32¼
smaller lots works lb. .27 - .50
Bone (see Black, bone).
Hardwood, briquets, bgs., c.l., works ton 77.00 -88.00
granular, bgs. works ton 77.00 —
bulk, c.l., works ton 70.40 - —
Pinewood, gran., powd., bgs., c.l., works, South ton 53.50 -63.50
l.c.l., works, South ton 53.50 -63.50
lump bgs., c.l., works, South ton 50.00 - —
l.c.l., works, South ton 53.00 -67.50
bulk, c.l., works, South ton 31.50 - —
Chestnut extract, liquid, 25% tannin, bbls., c.l., works lb. .0510- —
l.c.l., works lb. .0543- —
tanks, works lb. .04¼- —
powd., 60% tannin, bgs., extra, c.l., works lb. .1092- —
l.c.l., works lb. .1165- —
Chloral, tech., 94% min., dms., c.l. works lb. .23 - —
l.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.30 - —
500-lb. lots lb. 1.33 - —
100-lb. lots or less lb. 1.35 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 - —
Chlordan, agricultural, dms., c.l., frt. alld lb. .65 - —
l.c.l., 5,000 to 10,000 lb. lots, frt. alld lb. .66 - —
clarified, dms., c.l., frt. alld lb. .75 - —
l.c.l., 5,000 to 10,000 lb. lots, frt. alld lb. .76 - —
Chloramine T, NF, bbls., works lb. .75 - 1.00
m-Chloroaniline, dms., c.l., frt. equald lb. .75 - —
l.c.l., same basis lb. .80 - —
o-Chloroaniline, dms., c.l., works, frt. equald lb. .70 - —
l.c.l., same basis lb. .72 - —
p-Chloroaniline, dms., c.l., works, frt. equald lb. .75 - —
o-Chlorobenzaldehyde, dms., works, lb. 1.20 - —
p-Chlorobenzaldehyde, dms., works, lb. 1.33 - —
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .15½- —
l.c.l., same basis lb. .16½- —
70%, dms., c.l., same basis lb. .18 - —
l.c.l., same basis lb. .19 - —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
125, 1,000 cps., ctns., c.l., works lb. .60 - —
l.c.l., works lb. .61 - .63
Chlorine, liquid, cyls., c.l., works, frt. equald lb. .09½- —
l.c.l., Metropolitan area lb. .11 - .12¼
tanks, single units works, frt. equald 100 lbs. 2.53 - —
multiple units, 5 cars, works, frt. equald 100 lbs. 3.80 - 3.83
3 cars, same basis 100 lbs. 3.80 - —
2 cars, same basis 100 lbs. 5.00 - —
1 car, same basis 100 lbs. 6.00 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - .183
l.c.l., same basis lb. .19 - .20
tanks, same basis lb. .17 - .171
USP, dms lb. .30 - .35

Dow Preservatives act as "life insurance" for product quality of many adhesives

Dowicides A, F, and G prevent bacterial attack on adhesives, solve mold growth and odor problems



DOWICIDE PRESERVATIVES extend life of often-opened library pastes.

DOWICIDE® PRESERVATIVES alone account for this difference in two samples of the same product. Standard industrial adhesive samples were inoculated with microorganisms from a spoiled adhesive, then exposed for one week to a temperature of 86°F. Under these conditions, *untreated* test sample (*left*, above) has liquefied, shows mold growth, has objectionable odor. Decomposition under bacterial attack has left adhesive without needed properties. Test sample *treated* with Dowicide Preservatives (*right*, above) resisted such attack—retains proper consistency and all other desirable characteristics.

Fourteen various Dowicide Preservatives currently increase manufacturing efficiency and prolong product quality to the benefit of maker and consumer. They find use in the paint, petroleum, textile, paper and pulp, agricultural, leather, cordage, transportation and other industries. *Your* processing, packaging or selling operations might be helped materially by one or several Dowicide Preservatives. Dow's laboratories are equipped to analyze preservative problems and to test submitted samples. For detailed information, mail coupon to THE DOW CHEMICAL COMPANY, Midland, Michigan.

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Dept. DP 731D, Midland, Michigan

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Title_____
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City_____ Zone____ State_____

you can depend on DOW CHEMICALS DOW

3-Chloro-4-nitroaniline, paste, 100% basis	lb.	.51	—
4-Chloro-2-nitroaniline, dms., dlvd.	lb.	.80	—
o-Chlorophenol, dms., c.l., frt. equald.	lb.	.34½-	—
l.c.l., same basis	lb.	.35½-	—
p-Chlorophenol, dms., c.l., frt. equald.	lb.	.34½-	—
l.c.l., same basis	lb.	.35½-	—
Chlorophyll, oil soluble, 4%, not fixed, pails, tins, works	lb.	4.25	—
copper fixed, 6½%, tins, pails, works	lb	4.23	—
Sodium-copper, aqueous soln., 4%, dms., pails, works	lb.	3.75	—
8%, pails, dms., works	lb.	4.00	4.50
14%, cms., works	lb.	8.90	—
concentrated, dom., 50%, dms., works, 100% basis	lb.	42.00	—
75%, dms., works, 100% basis	lb.	45.00	—
90%-100%, dms., works, 100% basis	lb.	45.00	—
imported, 60%, tins, 100% basis	lb.	58.00	—
90%, tins, 100% basis	lb.	58.00	—
75%, tins, 100% basis	lb.	58.00	—
Chloropicrin, com'l, bots.	lb	1.50	—
cyls 180 lbs frt alld	lb.	.95	—
100 lbs., same basis	lb.	.97	—
25 lbs same basis	lb	1.22	—
Cholesterol, USP, fib, dms., 100-lb. lots	lb.	6.85	—
Choline bitartrate, fib, dms., frt adjusted	lb.	1.50	1.75
Chloride fib dms., frt adjusted.	lb	1.50	1.75
Dihydrogen citrate, fib, dms., frt. adjusted	lb.	1.50	1.75
Chromium acetate, soln., 7½%, bbls., works	lb.	.08½-	—
cbys works	lb.	.10¼	—
Fluoride, bbls., works	lb.	.51	.52
Green (see Green, chrome).			
Oxide (see Green chromium oxide).			
Trioxide NF bots	lb.	.32	.39
Yellow, (see Yellow chrome)			
Cinchona bark, NF, red, broken, bgs	lb.	.35	.40
yellow, broken, bgs	lb.	.35	.40
Cinchonidine, cryst, cns, 100-oz. lots.	oz.	.65	—
Sulfate cns., 100-oz. lots	oz.	.37	.40½
Cinchonine, cryst, cns., 100-oz. lots.	oz.	.52	.57
Sulfate, NF, cns., 100-oz. lots	oz.	.27½-	.30½
Cinchophen NF heavy density, dms. frt adjusted	lb.	3.70	4.05
standard density, dms., same basis	lb.	3.50	3.85
Cinchophen-sodium, dms., frt, adjusted	lb	4.50	4.85
Cinnamic alcohol (see Alcohol cinnamic).			
Cinnamon, Ceylon, No. 2, bls	lb.	.44	—
"0000," bgs., shipt	lb.	.55	.56
Citral, bots., cns.	lb.	3.50	4.50
Citronellal, bots., dms	lb.	1.85	2.50
Citronellol, bots., ums	lb.	2.00	2.55
Civet artificial bots		13.75	-15.00
natural, bots	oz.	7.50	-15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn.	ton.	19.50	—
crushed, shed moisture, bulk, c.l., Tenn	ton.	10.00	—
purified, bgs., c.l., Tenn	ton.	20.50	—
Imported, airfloated, bgs., c.l., Atlantic port, long	ton.	42.00	-45.00
lump, bulk, Atlantic port.	ton.	27.00	-30.20
China, dom., dry-grd., air-float, 99%, 325 mesh, bgs., c.l., Georgia, works	ton.	10.00	—
l.c.l., Georgia, works.	ton.	15.50	—
300 mesh, bgs., c.l., Georgia, works	ton.	13.50	-14.50
l.c.l.	ton.	35.00	-36.00
imported, white, lump, bulk, c.l., ex dock, Phila., Portland, Me.	gross ton.	20.00	-35.00
powd., bgs., c.l., ex dock	net ton	50 00	—
l.c.l., ex whse	net ton.	60.00	-65.00
Clove, Madagascar, bls	lb.	.55	.56
Zanzibar, bls	lb.	.65	.66
CMC, purified, high vis. (see Gum Cellulose). standard, low vis., bgs., 23,000 lbs. or over works frt alld	lb.	.60	—
smaller lots, same basis	lb.	.62	—
medium vis bgs. 23,000 lbs or over, works, frt. alld	lb.	.57	—
smaller lots same basis	lb.	.59	—
tech., high vis., 53% purity, bgs., 20,000 lbs. or more, dlvd. E., 100% basis	lb.	.56	—
2,000 to 20,000 lbs., dlvd. E	lb	.58	—
less than 2,000 lbs., dlvd. E	lb.	.62	—
low vis 80% purity bgs., or fib. dms., 23,000 lbs., dlvd. E, 100% basis	lb.	.39	—
less than 23,000 lbs., dlvd. E	lb.	.41	—
62% purity bgs., or fib dms., c.l., dlvd. E., 100% basis.	lb.	.39	—
l.c.l., dlvd. E., 100% basis	lb.	.41	—
58% purity, bgs., c.l., dlvd. E., net basis	lb.	.34	—
l.c.l., dlvd. E	lb.	.36	—
47½% purity, bgs., c.l., dlvd. E., 100% basis	lb.	.39	—
l.c.l., dlvd. E	lb.	.41	—
36½% purity, bgs., c.l., dlvd. E., net weight basis	lb.	.13½-	—
l.c.l., dlvd E	lb.	.20	—

CMC prices W of the Rockies are 1c. per lb. less than dlvd. E. prices.

Coaltar, crude, resale dms. c.l. ex-whse	gal.	.275	.30
l.c.l., ex-whse	gal.	.285	.32
tanks ex works	gal.	.154	.165
refined, resale, dms., c.l., ex-whse	gal.	.2950-	.3125
l.c.l., ex-whse	gal.	.2950-	.3245
tanks, ex whse	gal.	.1650-	.1760
Cobalt acetate, 23.7%, bbls., dlvd	lb.	1.37	—
Carbonate, 46% powd., bgs., dlvd.	lb.	2.23	—
Chloride 24.2% Co. kgs., dlvd.	lb.	1.27	—
Hydrate, 60-61% Co, bbls., dlvd	lb.	2.90	—
Linoleate, fused, 8½% Co., dms.	lb.	.75¾-	—
liquid, 6% Co., dms	lb.	.61	—
Metal, 97-99% kgs., ex whse	lb.	2.60	—
Naphthenate, liquid, 6% Co., dms., dlvd	lb.	.48¼-	—
Nitrate, 20.1% Co., bbls., dlvd	lb.	1.12	—
Phosphate, powdered 32.1% Co., kgs., dlvd	lb.	1.79	—
Oxide, black, 72½-73½% Co., kgs.	lb.	1.96	—
70-71% Co., kgs	lb.	1.90	—
Resinate, fused, 3% Co., dms	lb.	.29¾-	—
Sulfate, cryst, 21% Co., dms., dlvd	lb.	.95	—
monohydrated 33% Co. dms dlvd	lb.	1.49	—
Tallate, 6% Co., dms., dlvd	lb.	.45	.53½
Cocaine, USP, cns., 10-oz. lots	oz.	17.80	—
Hydrochloride, cns., 100-oz. lots.	oz.	13.75	—
Cocoanut, USP, gray, bgs	lb	66	.90
Cocillana bark, bgs	lb.	.65	Nom.
Cocoa butter, bgs	lb.	1.17	Nom.

Codeine, NF, cns., 100-oz. lots	oz.	13.25	—
Hydrochloride, cns., 100-oz. lots.	oz.	11.75	—
Phosphate, USP cns., 100-oz. lots	oz.	10.25	—
Sulfate, USP, cns. 100-oz. lots	oz.	10.75	—
Codliver oil (see Oil, codliver).			
Cohosh root, black, bls	lb.	.22	.25
blue, bls.	lb.	.22	.25
Colchicine, USP, bots., cns.	oz.	33.50	-40.00
Colchicum root, bls	lb.	.45	.55
seed, bgs	lb.	.80	1.10
Collodion USP, dms	lb.	.32½-	—
flexible, USP, dms	lb.	.34	—
Colocynth, pulp, bls	lb.	.25	.30
Colombo root, bls	lb.	.20	Nom.
Copaiba balsam, cns., dms	lb.	.90	1.20
Copper acetate, bbls., c.l., works. l.c.l., works	lb.	.40	—
Carbonate, 55%, bgs., works	lb.	.41	—
Chloride, anhyd., bbls., works	lb.	.263	.278
crystals, bbls., works	lb.	.39	—
Cyanide, tech., bbls., 1,000-lb. lots or more	lb.	.26½-	—
smaller lots	lb.	.619	—
Gluconate, cns., dms	lb.	.639	—
Hydrate, dms., frt. alld. E. Miss.	lb.	3.00	3.24
Metal, electrolytic, dlvd., Valley basis	lb.	.40¼-	.40¼
Naphthenate, liquid, 8% Cu., dms., frt. alld	lb.	.30	—
Nitrate, tech., cryst., bbls., works.	lb.	.23½-	—
Oleate, solid, 9% Cu, dms., works	lb.	.33¼-	—
Oxide, black, bbls., works	lb.	.45	—
red, com'l, bbls., works	lb.	.39	.44
Oxychloride, bls., works	lb.	.41	.46
Quinolinolate fib dms	lb.	.40	.40½
Resinate, precip., dms., frt. alld	lb.	4.25	4.50

Copper sulfate, CP, gran., bbls., works	lb.	.1715-	—
cryst., 99%, bgs., c.l., works.	100 lbs.	10.35	—
l.c.l., works	100 lbs.	10.60	-11.35
monohydrated, 35% dms., c.l., works	100 lbs.	17.10	-17.85
tribasic, dealers, bgs., c.l., works, frt. alld	100 lbs.	22.50	—
l.c.l., works	100 lbs.	23.00	-24.50
Undecylenate dms.	lb.	2.90	3.00
Copperas (see Ferrous sulfate).			
Copra, Atlantic, Gulf ports, c.i.f.	ton.	177.50	—
Pacific ports, c.i.f.	ton.	172.50	—
Coriander seed, Moroccan, bgs	lb.	.08	.08½
Roumanian, bgs.	lb.	.07	.07½
Corn sugar, tanners, chipped, paper bgs. c.l. 60,000 lbs. min.	100 lbs	7.31	—
l.c.l.	100 lbs.	7.46	—
Syrup, 42° dms., c.l.	100 lbs	7.32	—
l.c.l.	100 lbs.	7.46	—
Corrosive sublimate (see Mercuric Chloride).			
Cortisone acetate, NNR, bulk	gram.	3.75	4.00
Cottonseed meal, 41%, sacked, Memphis	ton.	65.00	—
36%, sacked, same basis	ton.	63.00	—
Coumarin cryst. NF, cns.	lb	1.94	3.15
pow'd cans	lb	1.20	3.25
Cramp bark, NF, bls.	lb.	.85	.90
Cream of tartar (see Potassium bitartrate).			
Creosote carbonate, NF, bots. cbys.	lb.	3.08	3.26
Coaltar, crude, tanks, works, frt. adjusted	gal.	.22	—
solution, 80%, tanks, works,	gal.	.2068-	—

2-Chloro-4-Nitroaniline—Crotonaldehyde

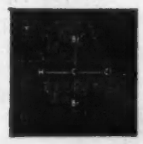
Creosote, coaltar, refined, dms., c.l., works	gal.	.3850-	—
l.c.l., same basis	gal.	.4510-	—
tanks, same basis	gal.	.2970-	—
Wood, beechwood, cbys., dms.	lb.	1.60	1.65
hardwood, NF, bots., cbys	lb.	1.30	1.35
pinewood, dms., works	gal.	.42½-	.50½
Cresol, tech., 50% below 204°C., dry above 207°C. wide distillation range, non-ret. dms. c.l. frt equald	lb.	.133	—
l.c.l. same basis	lb.	.136	—
ret. dms., c.l., same basis	lb.	.1325-	—
l.c.l., same basis	lb.	.1375-	—
tanks, same basis	lb.	.120	.1225
USP, non-ret., dms., c.l., same basis	lb.	1.43	—
l.c.l., same basis	lb.	.146	—
ret dms., c.l., same basis	lb.	.140	—
l.c.l., same basis	lb.	.145	—
tanks, same basis	lb.	.130	—
o-Cresol, m.p. over 30°C., ret.-dms., c.l., frt. equald	lb.	.173	—
l.c.l., same basis	lb.	.176	—
tanks, same basis	lb.	.16	—
29°C., ret. dms., c.l., frt. equald.	lb.	.16	—
l.c.l., same basis	lb.	.16½-	—
tanks, same basis	lb.	.15	—
25-29°C., dms., c.l., frt. equald.	lb.	.153	—
l.c.l., same basis	lb.	.156	—
tanks, same basis	lb.	.14	—
p-Cresol, 98%, dms., c.l., dlvd	lb.	.49	—
l.c.l., dlvd	lb.	.51	—
Methyl ether, cns	lb.	1.90	2.50
Crotonaldehyde, 91-93%, dms., l.c.l., works	lb.	.24¼	.25

individualized intermediates

for ORGANIC SYNTHESIS

Here are some of the individualized intermediates available through Michigan Chemical Corporation, in either test or production quantities. All chemicals are of highest quality, produced under control of our research and analytical laboratories, backed by 20 years experience. For complete information on specifications, description and properties of these and other intermediates, just write for our booklet "Individualized Intermediates".

Pestmaster* Methyl Bromide. A heavy, colorless liquid; non-inflammable and poisonous. Highly penetrating and insecticidally effective. Also used in organic synthesis for the introduction of the methyl group, especially in preparation of certain pharmaceutical chemicals.

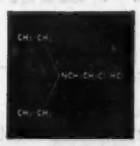


Dibromochloromethane. A clear, colorless, heavy liquid similar to bromodichloromethane. Used in organic synthesis, forming adducts with olefins under the influence of peroxide catalysts. Specific gravity 2.38; boiling point 116 degrees C.

Hydrobromic Acid. A clear, colorless or light amber colored fuming liquid. Used for manufacture of inorganic metal bromides, aliphatic bromides, pharmaceuticals, dyes and intermediates. 48% acid and other strengths as desired, in glass.

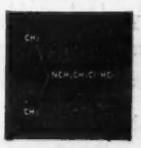
Cyclopentyl Bromide. A clear, colorless liquid with an aromatic odor. Specially prepared for use in organic synthesis, particularly for introduction of the cyclopentyl radical. Many potential uses in manufacture of pharmaceuticals. Purified grade, 2 degrees C. boiling range.

Ethyl Bromide. A clear, colorless, volatile liquid, specially prepared for use as an intermediate in organic synthesis. Practically free from impurities; has a narrow boiling range. Used in manufacture of dyes, perfumes and pharmaceuticals, especially barbiturates.



β-Diethylaminoethyl Chloride Hydrochloride. (DEC). $(CH_3CH_2)_2$ N CH_2 $CH_2Cl \cdot HCl$. A granular solid. Specially suited for use as an intermediate in organic chemical manufacture, including the manufacture of antispasmodic agents and other pharmaceuticals.

Monobromobenzene. Clear, colorless, heavy liquid. Specially prepared for use as an intermediate in preparation of organic compounds. For introduction of the phenyl radical and in Grignard-type reactions. A pure material with a 4 degrees C. boiling range; specific gravity 1.495.



β-Dimethylaminoethyl Chloride Hydrochloride. (DMC). $(CH_3)_2$ N CH_2 $CH_2Cl \cdot HCl$. A granular solid. Specially prepared for use in manufacture of antihistaminics and other pharmaceuticals. Other potential uses in organic synthesis. Relatively non-toxic in Hydrochloride form.

Bromotrichloromethane. A clear, colorless, heavy liquid with a chloroform-like odor. Specific gravity 2.0; boiling point 104 degrees C. Miscible with many organic liquids. Useful in organic synthesis, forming adducts with olefins with peroxide catalyst.

β-Dimethylaminoisopropyl Chloride Hydrochloride. $(CH_3)_2$ N CH_2 $CHCl$ $CH_3 \cdot HCl$. (DMIC). An organic intermediate similar in appearance and properties to DEC and DMC. Specially prepared for manufacture of analgesics and other pharmaceuticals. Other potential uses in organic synthesis.

MC

MICHIGAN CHEMICAL CORPORATION Saint Louis, Michigan

EASTERN SALES OFFICE: 230 Park Avenue New York 17, New York

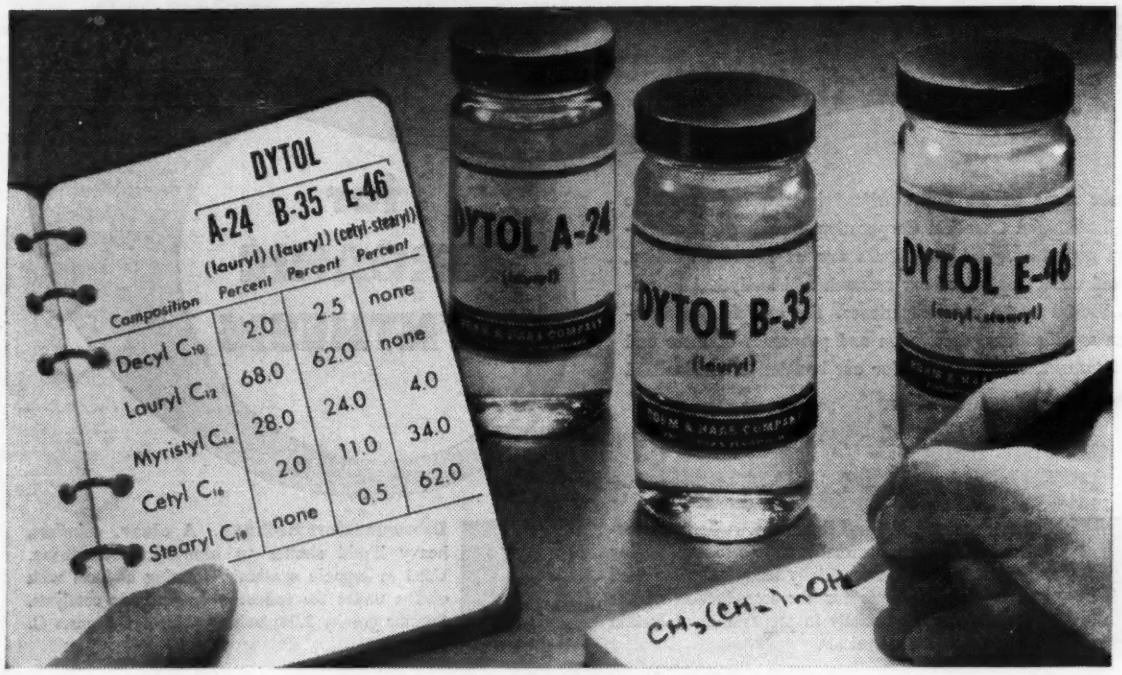
BASIC MANUFACTURER OF INDUSTRIAL, PHARMACEUTICAL AND AGRICULTURAL CHEMICALS

Cryolite—Dimethyl Sebacate

Cryolite nat., industrial, bgs., c.l., works 100 lbs. 13.00 - —
l.c.l., works 100 lbs. 14.25 - —
Insecticide, dealers, bgs., c.l., dlvd 100 lbs. 14.00 - —
l.c.l., dlvd. 100 lbs. 15.00 - —
Cube root, powd., 5% rotenone, bgs., works lb. .25 - —
Cubeb berries, XX, NF, bgs lb .50 - .51
powd., cs. lb .58 - .59
Cumene dms., c.l., works lb .12 - —
l.c.l., works lb .14 - —
tanks works lb .11 - —
Cumin seed, Iranian, bgs. lb. .14¾ - .15
Moroccan, bgs. lb. .15 - —
Turkish, bgs. lb. .14 - .14½
Cutch extract, 55% tannin, bgs. ex dock, duty extra lb. 08½ - —
Cyanamide fertilizer mixing grades, 20.6% N, gran., bgs., Niagara Falls, Ont., contract ton 55.00 - —
pulv., 21% N, bgs., works unit-ton 2.75 - —
Cyclohexane, tech., dms., c.l., works, gal. .70 - —
l.c.l., works gal. .72 - —
tanks works ga. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½ - .37¾
l.c.l., works, same basis lb. .30 - .38¼
tanks, works, same basis lb. .27 - .36¼
Cyclohexanone, tech., dms., c.l., works lb. .33½ - —
l.c.l., works lb. .35 - —
tanks, works lb. .32 - —
Cyclohexylamine, dms., c.l., works, lb. .46½ - —
l.c.l., works lb. .47½ - —
tanks, works lb. .45 - —
Cyclopropane, CP, 2-lb. cyls., works, cyl. 46.00 - —
6 oz. cyls., works cyl. 12.00 - —
USP, hospitals, cyls., 40-gal. lots gal. .36 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

D

2,4-D, bbls., c.l., works, frt. equald, lb. .43½ - —
l.c.l., same basis lb. .494 - —
Butyl ester, dms., c.l., works lb. .46½ - —
l.c.l., same basis lb. .51½ - .56¼
Isopropyl ester, dms., c.l., works, lb. .46½ - —
l.c.l., works lb. .51½ - .56¼
Dandelion root, bls lb. .35 - .40
DDD, tech., flake, grd., fib. bgs., c.l., works lb. .45 - —
l.c.l., works lb. .46 - —
DDT powder, bgs., c.l., works, frt. equald lb. .27 - —
smaller lots, same basis lb. .29 - —
fib. dms., c.l., same basis lb. .28 - —
smaller lots, same basis lb. .30 - —
1-Decanol, tech., dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd lb. .37 - —
tanks, dlvd lb. .32½ - —
Deertongue leaves, bls lb. .45 - .48
Defluorinated phosphate, 13% P, paper bgs., works ton. 49.50 - —
Rock, 17% P, paper bgs., works, ton. 56.00 - —
14½% P, paper bgs., works, ton. 48.00 - —
Degras, common, bbls lb. .10 - .12
neutral, less 2% ffa., bbls lb. .24 - .25
over 2% ffa., bbls lb. .23 - .24
Derris root, 5% rotenone powd., bbls lb. .36 Nom.
d-Desoxyephedrine hydrochloride bots lb. 25.00 - —
dl, bots. lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l., 100 lbs. 8.95 - —
l.c.l. 100 lbs 9.10 - —
canary paper bgs., c.l. 100 lbs 8.69 - —
l.c.l. 100 lbs 8.84 - —
dark, paper bgs., c.l. 100 lbs 8.79 - —
l.c.l. 100 lbs 8.94 - —
white, paper bgs., c.l. 100 lbs. 8.53 - —
l.c.l. 100 lbs. 8.68 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, bgs. lb. .10¼ - .11
Dextrose, USP, dms. lb. .17¾ - —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots lb. 4.50 5.50
Di-sec-amyl phenol, dms., c.l., works lb. .30¼ - —
l.c.l., works lb. .33¼ - —
tanks, works lb. .28¼ - —
Di-tert-amyl phenol, dms., c.l., works lb. .30¼ - —
l.c.l., works lb. .33¼ - —
tanks, works lb. .28¼ - —
o-Dianisidine dms. lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works, lb. .89¾ - .90
l.c.l., same basis lb. .90¼ - .91
tanks, same basis lb. .88 - —
p-Dibromobenzene, bgs., 500-lb. lots, lb. .55 - —
Dibutyl phthalate, dms., c.l., dlvd, E lb. .32 - —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .30 - —
Sebacate, dms., c.l., works, lb. .68 - .68¼
l.c.l., works lb. .69½ - .70
tanks, works, dlvd lb. .70 - .71
Tartrate, dms., works, frt. alld lb. .64 - .71
Dibutylamine, dms., c.l., dlvd lb. .55 - —
l.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
Di-tert-butyl-p-cresol, dms., c.l., works lb. .91 - —
l.c.l., works lb. .95 - —
Dicaprylyl phthalate, dms., c.l., dlvd., works lb. .31½ - .32
l.c.l., same basis lb. .32 - .33
tanks, same basis lb. .30 - —
Sebacate, dms., c.l., works lb. .66 - —
l.c.l., works lb. .66½ - .67
tanks, works lb. .64 - —
2,5-Dichloroaniline dms., works lb. .75 - .83
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¼ - —
l.c.l., same basis lb. .13¼ - —
tanks, same basis lb. .10¾ - —
p-Dichlorobenzene, dms., c.l., frt. alld. E lb. .16½ - —
l.c.l., same basis lb. .19 - —
Dichlorodiphenyltrichloroethane (see DDT).
2,2-Dichloroethyl ether, refined, dms., c.l., dlvd. E lb. .14 - —
l.c.l., dlvd. E lb. .15 - —
tanks, dlvd. E lb. .13 - —
tech., dms., c.l., works lb. .13 - —
l.c.l., works lb. .13½ - —
tanks, works lb. .12 - —
Dichloropentanes, dms., c.l., works, lb. .05 - —
l.c.l., works lb. .05¾ - —
tanks, works lb. .04¼ - —
Dicyclohexylamine, dms., c.l., works, lb. .51 - —
l.c.l., works lb. .51¾ - —
tanks works lb. .49¾ - —
Dicyclohexyl phthalate, fib. dms., c.l., frt. alld., works lb. .58¼ - .59
l.c.l., same basis lb. .59¼ - .60
Dieldrin, dms., frt. alld lb. 1.80 - —
l.c.l., frt. alld lb. 1.85 - —
Diethanolamine, dms., c.l., dlvd. E, lb. .24¾ - —
l.c.l., same basis lb. .25¾ - —
tanks, same basis lb. .23 - —
Diethyl carbonate, dms., c.l., frt. alld lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks same basis lb. .45 - —
Ethanolamines, dms., c.l., dlvd lb. .67½ - —
l.c.l., dlvd lb. .68½ - —
tanks, dlvd lb. .65½ - —
Oxalate, dms., c.l., frt. alld lb. .42 - —
l.c.l., same basis lb. .43 - —
tanks, same basis lb. .40 - —
Phthalate, dms., c.l., dlvd lb. .27 - —
l.c.l., dlvd. lb. .28 - —
tanks, dlvd. lb. .25 - —
Sulfate, dms., c.l., works lb. .18¾ - —
l.c.l. works lb. .19¼ - —
tanks works lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .50½ - —
l.c.l., same basis lb. .51½ - —
tanks, same basis lb. .48½ - —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .51 - —
l.c.l., same basis lb. .52 - —
tanks, same basis lb. .50 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd. E, lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13¼ - —
Boriborate, dms., l.c.l. lb. .31 - —
Diethyl ether, dms., c.l., works, lb. .46½ - —
l.c.l., works lb. .47 - —
Monobutyl ether, dms., c.l., works lb. .28¾ - —
l.c.l., works lb. .29¼ - —
tanks, works lb. .27 - —
Acetate, dms., c.l., works lb. .30 - —
l.c.l., works lb. .30½ - —
tanks, dlvd. E lb. .25¼ - —
Monoethyl ether, dms., c.l., dlvd. lb. .20¾ - —
l.c.l., dlvd lb. .21½ - —
tanks, dlvd lb. .19½ - —
Acetate, dms., c.l., works lb. .26¾ - —
l.c.l., works lb. .27¼ - —
tanks, dlvd. E lb. .25¼ - —
Monomethyl ether, dms., c.l., works lb. .20 - —
l.c.l., works lb. .21 - —
tanks, works lb. .18½ - —
Diethylenetriamine dms., c.l., dlvd E, lb. .43 - —
l.c.l., same basis lb. .44 - —
tanks, same basis lb. .41½ - —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo. 100.00 - —
1-kilo lot kilo. 110.00 - —
Digitalis leaves, USP, dom., dms., lb. .90 - 1.10
Digitoxin, USP, bots gram. 5.50 - 6.00
Diglycol laurate, dms lb. .35 - .38
Oleate, dms lb. .31 - —
Stearate, dms lb. .26 - .27
Dihexyl sebacate, dms., c.l., works lb. .66 - —
l.c.l., works lb. .66½ - .67
tanks, works lb. .64 - —
Dihydrazine sulfate, dms., works, lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .17 - —
Sulfate, bulk gram. .17 - —
2',2'-Dihydroxy-5,5'-dichloro-diphenyl-methane, pure, dms. lb. 2.80 - 3.00
tech., dms lb. 1.04 - 1.14
Di-isobutyl ketone, dms., c.l., dlvd. lb. .15½ - —
l.c.l., dlvd lb. .16½ - —
tanks, same basis lb. .13½ - —
Phthalate, dms., c.l., dlvd. E lb. .31 - —
l.c.l., same basis lb. .32 - —
tanks, same basis lb. .29 - —
Di-isobutylene, dms., c.l., works lb. .10 - —
l.c.l., works lb. .11 - —
tanks, works lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd. lb. .34 - —
l.c.l., same basis lb. .35 - —
tanks, same basis lb. .32 - —
Sebacate, dms., c.l., works, lb. .65½ - .66
l.c.l., works lb. .66 - .67
tanks, works, dlvd lb. .64 - .64½
Di-isopropylamine dms., c.l., dlvd. E. of Rockies lb. .50 - —
l.c.l., same basis lb. .51 - —
tanks, same basis lb. .48 - —
Dillseed, dewhiskered, bgs lb. .14 - —
nat., bgs lb. .12½ - —
Dimethyl antranilate, cms lb. 5.25 - 5.75
Chloroacetal, dms., c.l., works lb. .45 - —
l.c.l., works lb. .50 - —
tanks, works lb. .40 - —
Ethanolamines, anhydrous, dms., c.l., dlvd. lb. 1.43 - —
l.c.l., dlvd lb. 1.45 - —
tanks, dlvd lb. 1.40 - —
70%, dms., c.l., dlvd., 100% basis, lb. .55 - —
tanks, dlvd lb. .53 - —
Hydroquinone, dms lb. 1.70 - 2.75
Phthalate, dms., c.l., works lb. .29½ - —
l.c.l., works lb. .30½ - —
tanks, dlvd. lb. .27½ - —
Sebacate, dms., c.l., works lb. 1.27 - —
l.c.l., works lb. 1.28 - —
tanks, works lb. 1.25 - —



Rohm & Haas DYTOL Fatty Alcohols Available in Tank Car Quantities

Do you manufacture detergents, additives for cosmetic creams, or polymerization regulators for rubber? Do you make textile finishing and softening agents, quaternary ammonium compounds, or emulsifiers? In any case you may find the fatty alcohol you want among the DYTOL alcohols.

DYTOL fatty alcohols undergo typical alcohol reactions. They may be ethoxylated, sulfated, esterified, halogenated, and dehydrated. They may be oxidized to aldehydes and carboxylic acids.

When you choose a DYTOL fatty alcohol you do more than merely choose a lauryl or cetyl-stearyl alcohol. You assure yourself an adequate supply, high quality, and good service. For information and samples of the DYTOL alcohols or details on other Rohm & Haas organic chemicals, just fill out the coupon.

ROHM & HAAS COMPANY, Washington Square, Phila. 5, Pa.
Please send me information and samples on the following:
☐ DYTOL A-24 ☐ DYTOL B-35 ☐ DYTOL E-46
Send me information on following:
☐ Acrylic Monomers ☐ Alkyl Phenols
☐ PRIMENE Amines ☐ Dimethylformamide
☐ PRIMINOX Polyethoxy Amines ☐ Methylamines
Name.....
Firm..... Title.....
Address.....
City..... State.....

CHEMICALS FOR INDUSTRY

ROHM & HAAS COMPANY
WASHINGTON SQUARE, PHILADELPHIA 5, PA.
Representatives in principal foreign countries

DYTOL, PRIMENE, *and* PRIMINOX *are trademarks, Reg. U.S. Pat. Off. and in principal foreign countries.*

Dimethyl sulfate, 55-gal., ret. dms., c.l., works lb. .15 - —
l.c.l. works lb .16 - —
10-gal. ret. dms., l.c.l., works lb. .16½- —
Dimethylamine, 25-40%, dms., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .39½- —
tanks, frt. equald lb. .33 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .29½- —
l.c.l., frt alld lb. .30½- —
tanks, frt. alld lb. .28½- —
N,N-Dimethylformamide dms., works lb. .34 - .36
tanks, works lb. .33 - —
2,4-Dinitroaniline, dms., frt. equald lb. .57 - —
m-Dinitrobenzene, 85°C., dms lb. .20 - —
89°C., dms lb. .22 - —
2,4-Dinitrochlorobenzene, dms., c.l., frt. alld. E lb. .15½- —
l.c.l., frt. alld E lb. .15¾- —
tanks, frt alld., E lb. .15 - —
2,4-Dinitrophenol, bbls. lb. .37 - —
2,4-Dinitrotoluene, oily, dms. lb. .10 - —
refined, dms. lb. .21 - —
Dioctyl adipate, dms., c.l., works. lb. .45½- —
l.c.l., works b. .46½- —
tanks, works lb. .43½- —
Phthalate, dms., c.l., frt. alld lb. .34 - —
l.c.l., frt. alld lb. .35 - —
tanks, frt. alld lb. .32 - —
Sebacate, dms., c.l., works. lb. .65½- .66
l.c.l., works lb. .66 - .67
tanks, works, dlvd lb. .64 - .64½
Di-o-tolyguanidine, dms., ton lots, dlvd. lb. .57 - —
smaller lots, dlvd lb. .58 - —
1,4-Dioxane, dms., c.l., works lb. .28¾- —
l.c.l. same basis lb. .29¼- —
tanks same basis lb. .27 - —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works. .35 - —
Dipentene dest.-dist. dms. extra, c.l., works gal. .48½- —
l.c.l., works gal. .53½- —
ex-whse. gal. .70 - —
steam-dist., dms., c.l., works, South. gal. .64 - —
dlvd. N. Y gal. .82 - —
tanks, works, South gal. .50 - —
Diphenyl, bbls., c.l., works lb. .15 - —
l.c.l. works lb. .16 - —
Diphenyl in bags ¼c. lower.
Oxide, perfume grade, cns lb. .54 - .61
Phthalate, dms., c.l., works lb. .51¾- —
l.c.l., works lb. .53¾- —
Diphenylguanidine dms., ton lots lb. .48 - —
smaller lots lb. .49 - .50
Diphenylhydantoin-sodium, USP, dms lb. 5.30 - 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13¼- —
Monomethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Divi-divi, 45% tannin, bgs., bls., c.l., U.S. ports, exdock ton 72.00 - 72.00
Divinylbenzene, 20-25%, dms., c.l., works lb .20 - —
l.c.l. works lb .21 - —
tanks, works lb. .19 - —
40-50%, dms., c.l., works, 100% basis lb. 1.00 - —
l.c.l., works, 100% basis lb. 1.15 - —
Dodecylbenzene, dms., c.l., frt. equald lb. .14½- —
l.c.l. same basis lb. .15½- —
tanks, same basis lb. .12½- —

Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots dlvd:—
Blue, FD & C, No. 1, cns lb.17.00 -17.60
No. 2, cns lb.17.00 -17.60
Green, FD & C, No. 1, cns lb.17.00 -17.60
No. 2, cns lb.22.20 -22.85
No. 3, cns lb.35.25 -35.90
Orange, FD & C, No. 1, cns lb. 3.65 - 3.75
No. 2, cns lb. 4.65 - 4.75
Red, FD & C, No. 1, cns lb. 7.55 - 7.85
No. 2, cns lb. 4.00 - 4.10
No. 3, cns lb.22.20 -22.85
No. 4, cns lb. 7.20 - 7.50
No. 32, cns lb. 5.30 - 5.40
Violet, FD & C, No. 1, cns lb.17.00 -17.60
Yellow, FD & C, No. 1, cns lb.10.50 -11.05
No. 3, cns lb. 3.30 - 3.40
No. 4, cns lb. 3.30 - 3.40
No. 5, cns lb. 4.00 - 4.10
No. 6, cns lb. 4.00 - 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—
Black, D&C, No. 1, cns lb.10.95 - —
Brown, D&C, No. 1, cns lb.16.10 - —
Green, D&C, No. 5, cns lb.16.10 - —
No. 6, cns lb.16.10 - —
No. 7, cns lb.14.80 - —
Orange, D&C, No. 3, cns lb.10.95 - —
No. 4, cns lb.20.05 - —
No. 5, cns lb. 5.70 - —
No. 10, cns lb.20.70 - —
Red, D&C, No. 8, cns lb. 2.85 - —
No. 9, cns lb. 2.85 - —
No. 10, cns lb. 2.30 - —
No. 11, cns lb. 1.85 - —
No. 12, cns lb. 2.65 - —
No. 17, cns lb.10.95 - —
No. 18, cns lb.24.00 - —
No. 19, cns lb.15.45 - —
No. 21, cns lb. 3.60 - —
No. 22, cns lb.10.95 - —
No. 28, cns lb.24.65 - —
No. 33, cns lb.17.45 - —
Violet, D&C, No. 2, cns lb.16.10 - —
Yellow, D&C, No. 7, cns lb.10.95 - —
No. 10, cns lb.13.50 - —
No. 11, cns lb.13.50 - —

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, dlvd:—
Blue, Ext., D&C, No. 1, cns lb.16.10 - —
Green, Ext., D&C, No. 1, cns lb.16.10 - —
Red, Ext., D&C, No. 1, cns lb.13.50 - —
Yellow, Ext., D&C, No. 1, cns lb.10.95 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.
20 Chrysoidine Y lb. .74 - —
27 Fast light orange 2G lb. .90 - —
31 Phloxine 2G lb. .74 - —
36 Yellow 2G lb. .83 - —
40 Orange R extra, conc lb. 1.06 - —
57 Fuchsine 6B lb. 1.08 - —
79 Scarlet 2R lb. .81 - —
151 Orange AD lb. .55 - —
161 Orange RR lb. .66 - —
176 Fast red A lb. .99 - —
179 Rubine XX, conc lb. 1.14 - —
180 Blue F4B lb. .92 - —
185 Brilliant scarlet 3RN, conc. lb. .93 - —
202 Chrome blue black, conc lb. .75 - —
203 Chrome black T lb. .73 - —
208 Fast blue SR lb. .91 - —
216 Chrome red B lb. .84 - —
234 Brown Y lb. .98 - —
246 Blue black, extra, conc lb. .95 - —
275 Milling red 3R, conc lb. 2.03 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd., No.
1034 Alizarine red SC lb. 2.59 - —
1054 Alizarine blue SAPX lb. 2.91 - —
1078 Alizarine green CG, extra. lb. 2.72 - —
1085 Alizarine blue, black, B lb. 2.33 - —
1096 Golden orange GFD, single paste lb. 1.99 - —
1099 Dark blue BO, single paste. lb. 1.75 - —
1101 Jade green N, double paste. lb. 1.98 - —
1106 Blue RS, double paste lb. 2.96 - —
1113 Blue BLFD, double paste. lb. 2.25 - —
1150 Olive R, single paste lb. 1.10 - —
1151 Brown R, single paste lb. 1.76 - —
1171 Indigo, synthetic, 20% paste lb. .31 - —
1217 Orange RD, single paste. lb. 1.65 - —
p-4 Brown PG lb. 2.30 - —
p-24 Gray L lb. 1.60 - —
p-14 Brown EB lb. 1.51 - —
p-80 Diazo brilliant scarlet ROAD lb. 2.79 - —
p-202 Diazo black VJ, conc lb. 1.74 - —
p-244 Brilliant scarlet BN lb. 1.31 - —
p-313 Naphthol SWF lb. 2.42 - —

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.
Black blue No. 550 lb. .81 - —
Jet No. 551 lb. .89 - —
Brown R, conc lb. 1.72 - —
Orange R, brilliant lb. .90 - —
Red 4B, conc lb. 1.37 - —
Yellow C lb. 1.18 - —
FN, conc lb. 1.22 - —

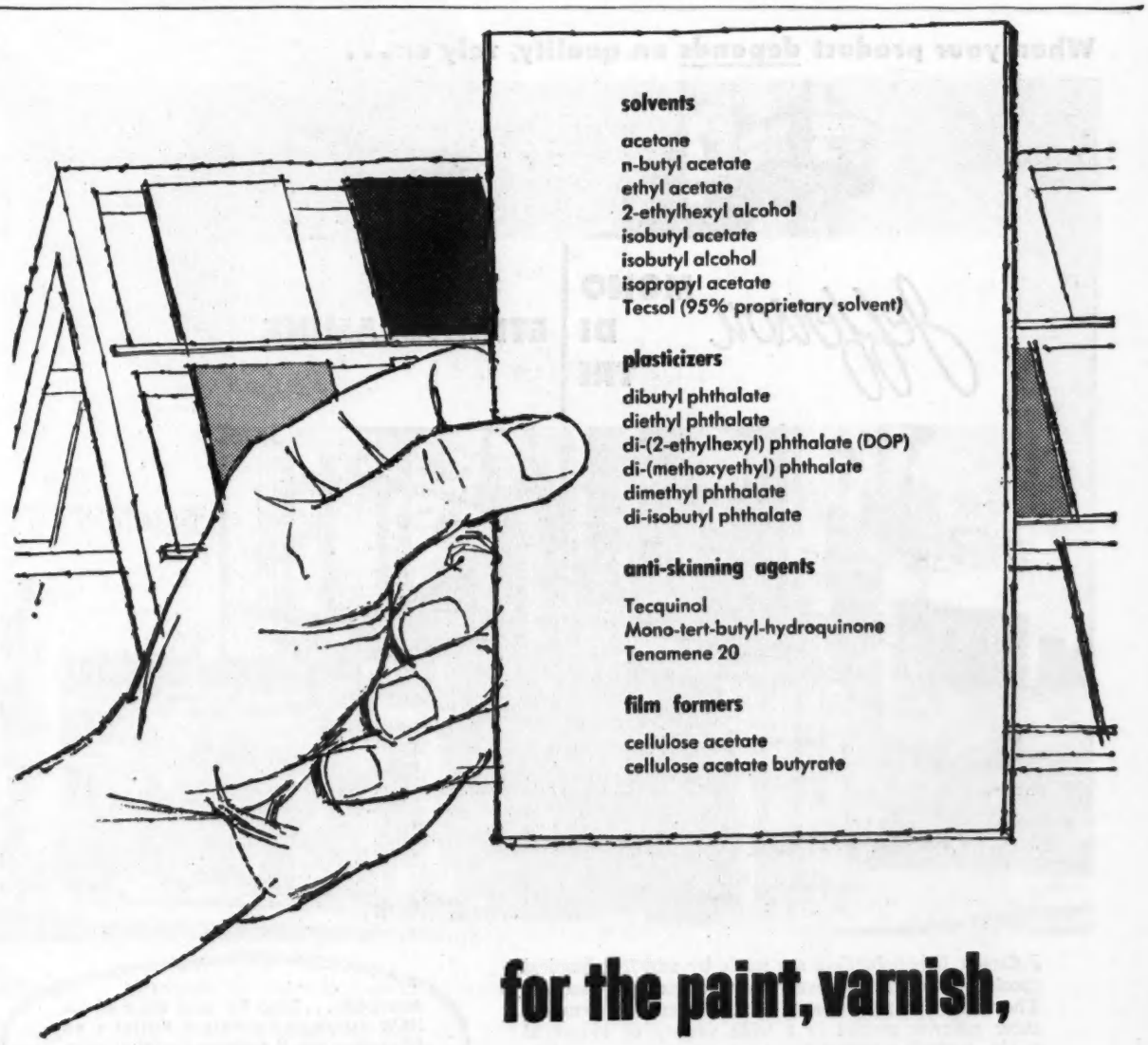
Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works:—
Auramine O lb. 1.85 - —
Black, basic blue lb. 1.21 - —
Jet lb. 1.21 - —
works:—
Blue, methylene, 2 B, conc lb. 1.71 - —
Brown Bismarck R, conc lb. .86 - —
Chrysoidine, R, extra lb. .60 - —
Y, extra lb. .64 - —
Fuchsine, conc lb. 3.08 - —
Green, malachite, conc lb. 2.10 - —
Rhodamine, B lb. 4.33 - —
Safranine, Y, conc lb. 2.90 - —
Violet, methyl, B lb. 1.10 - —

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works:—
Azo rubine R, extra conc lb. 1.04 - —
Black, acid blue, B, extra lb. .86 - —
Fast light, 3 G, extra lb. 2.04 - —
Methanil, conc lb. .91 - —
Orange acid, Y, conc lb. .47 - —
Scarlet croceine, MOO lb. 1.43 - —
Yellow, azo, conc lb. .90 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls lb 1.25 - —
Egg albumin (see Albumin),
Yolk, dried, dom., bbls lb. 1.08 - 1.10
tanners, bbls lb .06 - .06½
Elder flowers, bright, bls lb .35 - .40
Elm bark, grinding, bls lb. .45 - —
powd., bbls., bxs lb. .55 - —
select, bundles lb. .60 - —
Emetine hydrochloride, USP, bots oz.32.95 -35.00



for the paint, varnish, and lacquer industry

Stocks of most of these Eastman industrial chemicals are carried in the larger industrial centers of the United States. For further information, write or call our nearest sales office.

Eastman
CHEMICAL PRODUCTS, INC.
KINGSPORT, TENNESSEE
Subsidiary of EASTMAN KODAK COMPANY

SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tenn.; New York—260 Madison Ave.; Framingham, Mass.—65 Concord St.; Cincinnati-Carew Tower; Cleveland-Terminal Tower Bldg.; Chicago—360 N. Michigan Ave.; St. Louis—Continental Bldg.; Houston—412 Main St. West Coast: Wilson Meyer Co., San Francisco—333 Montgomery St.; Los Angeles—4800 District Blvd.; Portland—520 S. W. Sixth Ave.; Seattle—821 Second Ave.

Ephedrine—Gasoline

Ephedrine, syn., USP, anhydrous, bots., 100-oz. lots oz. .86 - 1.00
hydrous, bots., 100-oz. lots oz. .92 - —
Hydrochloride, tins, 100-oz. lots, oz. .75 - —
Sulfate, cryst., tins, 100-oz. lots, oz. .72 - —
powd., tins, 100-oz. lots oz. .73 - —
Epichlorohydrin, dms., c.l., works lb. .39 - —
l.c.l., works lb. .40 - —
tanks, works lb. .37 - —
Epsom salt (see Magnesium sulfate).
Epinephrine, syn., USP, bots., 100-gram lots gram. .45 - .55
Ergosterol, unirradiated, cryst kilo. 150.00 - —
Ergot, NF, dms., tin-lined lb. 3.25 - 3.50
Eserine salicylate, bots oz. 29.75 - 32.50
Sulfate, bots. oz. 34.50 - 35.61
Ether (see specific product).
Ethyl acetate, natural fermentation 85-88%, dms., c.l., frt. alld. lb. .13 - —
l.c.l., frt. alld lb. .14 - —
tanks, frt alld lb. .11 - —
95-96%, dms., c.l., frt. alld. lb. .13¾ - —
l.c.l., frt. alld. lb. .14¼ - —
tanks frt alld lb. .11¼ - —
99%, dms., c.l., frt. alld lb. .13½ - —
l.c.l., frt alld. lb. .14½ - —
tanks, frt. alld lb. .11½ - —
synthetic, 85-98%, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd. lb. .14 - —
tanks, dlvd lb. .11 - —
95-98%, dms., c.l., dlvd lb. .13¼ - —
l.c.l., dlvd. lb. .14¼ - —
tanks, dlvd lb. .11¼ - —
99%, dms, c.l., dlvd lb. .13½ - —
l.c.l., dlvd. lb. .14½ - —
tanks, dlvd lb. .11½ - —
Ethyl acetoacetate, dms., c.l., dlvd lb. .55 - —
l.c.l., dlvd lb. .56½ - —
Acrylate, dms., c.l., and truck load, works lb. .44½ - —
less than truckload, works lb. .45½ - —
tanks, works lb. .42¾ - —
Aminobenzoate, USP (see Benzocaine).
Benzoate, cns., dms. lb. .74 - .90
Bromide, tech., 98%, dms., c.l lb. .41 - —
l.c.l. lb. .43 - —
Butyl ketone, dms., c.l., works lb. .35½ - —
l.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Butyrate, works lb. .80 - 1.02
Carbamate (see Urethane)
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works lb. .70 - —
smaller lots, works lb. .72 - .80
vis., 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works lb. .69 - .72
smaller lots, works lb. .75 - .81
Chloride, tech., cyl., c.l., works lb. .20 - .22
dms., c.l. same basis lb. .18 - .20
tanks same basis lb. .10 - —
USP, bots., cyls lb. .22 - .24
Cinnamate, cns lb. 2.71 - 3.45
Ethanolamines, mixed, dms., c.l., frt. alld. E. Miss lb. .42½ - —
l.c.l., same basis lb. .43½ - —
tanks, same basis lb. .40½ - —
Ether, absolute, ACS, dms lb. .37 - —
anesthesia, UPS, hospitals, 1-lb. cns lb. .89 - —
½-lb. cns lb. .97 - —
¼-lb. cns lb. 1.05 - —
solvent, USP, dms., c.l., dlvd lb. .15¾ - —
l.c.l., dlvd lb. .16¾ - —
tanks, dlvd lb. .13¾ - —
Ethyl ether, syn., dms., c.l., dlvd. E lb. .12 - —
l.c.l., dlvd. E lb. .13 - —
tanks, dlvd. E lb. .10 - —
Gallate, dms., 100 to 2,000-lb. lots lb. 3.90 - 4.40
Iodide, cbys., works lb. 3.30 - —
Methacrylate, dms., c.l., and less than truckload, works lb. .51½ - .52
Morphine hydrochloride, USP, bots. oz. 11.85 - —
Nitrite (see Ether nitrous).
Oenanthate, dms. lb. 1.00 - 1.50
Oleate, dms., c.l., works lb. No prices
Oxalate (see Diethyl oxalate)
Silicate dist. (see Tetraethylorthosilicate).
40% available SiO dms. works, lb. .54½ - —
N-Ethyl-a-naphthylamine, dms., works, lb. 1.02 - —
N-Ethyl-o-toluidine, bbls lb. .88 - —
Ethylamine (see Mono Di- or Tri-)
N-Ethylaniline, dms., c.l., frt. alld. lb. .51 - —
l.c.l., frt. alld lb. .52 - —
tanks, frt. alld lb. .50 - —
Ethylbenzene, 99%, dms., c.l. lb. .19½ - .20¼
l.c.l. lb. .20½ - .21¼
tanks lb. .18½ - —
Ethylene dichloride, dms., c.l., dlvd lb. .10¼ - —
l.c.l., same basis lb. .12¼ - —
tanks, same basis lb. .09 - —
Ethylene dichloride prices W. of Rockies 1c per lb higher.
Glycol, dms., c.l., dlvd. E lb. .13¼ - —
l.c.l., same basis lb. .14¼ - —
tanks, same basis lb. .11½ - —
Monobutyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd E lb. .21 - —
tanks, dlvd E lb. .18½ - —
Ethylene glycol monoethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E lb. .21 - —
tanks, dlvd E lb. .18½ - —
Acetate, dms., c.l., dlvd. E lb. .18½ - —
l.c.l., dlvd E lb. .19½ - —
tanks, dlvd. E lb. .16½ - —
Monomethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E lb. .21 - —
tanks, dlvd. E lb. .18½ - —
Acetate, dms., c.l., dlvd. E lb. .28¾ - —
l.c.l., dlvd. E lb. .29¼ - —
tanks, dlvd. E lb. .27 - —
Monostearate, triple pressed, dms lb. .34 - —
Oxide, dms., c.l., dlvd lb. .19½ - —
l.c.l., dlvd. lb. .22½ - —
tanks, dlvd. lb. .13½ - —
Trichloride (see Trichloroethane).
Ethylenediamine 85-88% dms., c.l., dlvd. E., 100% basis lb. .46 - —
l.c.l., dlvd. E., 100% basis lb. .47 - —
tanks, dlvd. E., 100% basis lb. .44 - —
Ethylvanillin, cns., 25-lb. lots lb. 6.75 - 7.30
smaller lots lb 7.35 7.40
Eucalyptol, USP, cns., dms lb 1.40 - 1.50
Eugenol, USP, bots lb. 2.55 - 3.15
Euphorbia herb, bls lb. .15 - .17

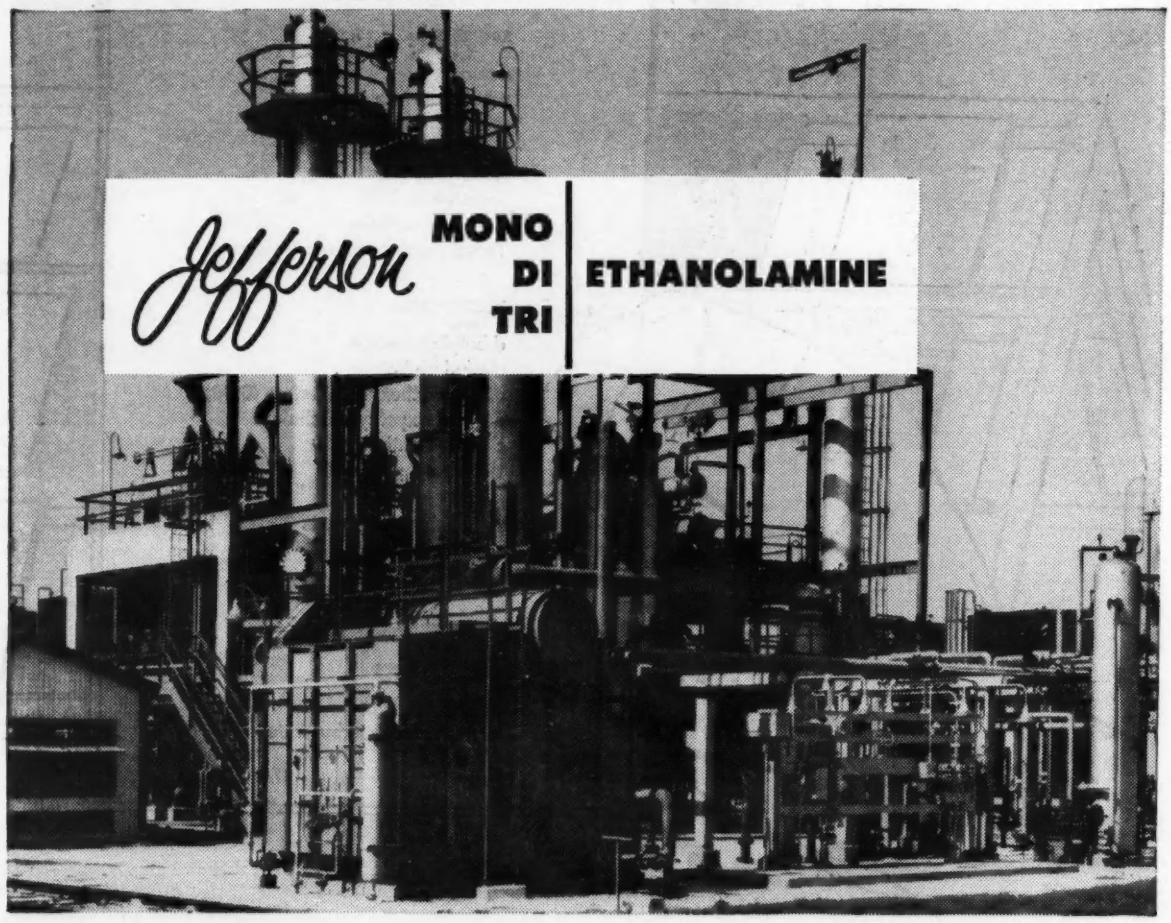
F

Feldspar, enamel, 100 mesh, bgs., works ton 20.00 -22.00
Glass, 20 mesh, bulk, tons, works ton 11.75 -12.50
Pottery bgs, ton lots, works ton 20.00 -22.00
bulk, c.l., works ton 18.00 -20.00
Fennel seed, Argentine, bgs lb. .10½ - —
Czech, medium, bgs lb. .10½ - —
Indian, light, bgs lb. .11 - .11½
Fenugreek seed, Moroccan, bgs. lb. .06¼ - .06½
Ferric acetate, liquor, 28°, bbls., c.l., works lb. .09 - —
l.c.l., works lb. .09¾ - —
soln., USP IX, cybs lb. .16 - —
dims. lb. .17 - —
Cacodylate, NF, bots lb. 13.00 -14.00
Chloride, anhyd., tech., dms., c.l., works 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 8.00 - —
indust., cryst., bbls., c.l., works, 100 lbs. 4.75 - 5.25
l.c.l., works 100 lbs. 5.75 - 6.25
42° Be, cbys., c.l., works, 100 lbs. 7.25 - 8.25
tanks, frt. equald., 100% basis 100 lbs. 3.25 - —
USP, cryst., dms., works lb. .07½ - .09
Citrate, gran., dms lb. .66 - —
Glycerophosphate, NF, powd lb. 4.75 - 4.85
Hydrophosphite, NF, dms lb. 2.80 - —
Naphthenate liq., 6% Fe., dms., frt. alld lb. .25¾ - —
Oxalate, gran., dms lb. .85 - .87
Phosphate, NF, soluble, gran., pearls, cs lb. .64 - .65
Pyrophosphate, NF VII, soluble, gran., pearls, dms lb. .78 - .81
Resinate, 6.75% Fe, dms., frt. alld. lb. .26¼ - —
Stearate, dms., c.l., frt. alld lb. .37 - —
l.c.l., frt. alld lb. .38 - .42
Sulfate, partially hydrated, bgs., c.l., works ton 31.75 -33.75
l.c.l., works ton 34.75 -40.75
Ferric-ammonium citrate, brown, NF, gran., dms lb. .59 - —
green, USP XII, gran., dms lb. .59 - —
Oxalate, fine gran., dms lb. .25½ - .28½
Ferric-potassium, oxalate, fine gran., dms lb. .30½ - .33½
Ferric-sodium oxalate, fine gran., dms lb. .25½ - .28½
Ferrous gluconate, NF, dms lb. .58 - —
Sulfate, gran., bgs., c.l., works, ton 34.50 - —
l.c.l., dlvd. metropolitan area 100 lbs. 3.35 - 4.25
bbls., c.l., works ton 40.00 - —
bulk, c.l., works ton 27.00 - —
USP, cryst., bbls., dms lb. .09½ - .10
Fir balsam, Canada, cns gal. 34.00 -35.00
Oregon, bbls gal. No prices.
Fishliver oil (see Oil fishliver).
Fishmeal, menhaden, ground, domestic, 60% protein, bags, Balto area ton. 145.00 Nom.
Fishscrap, menhaden, dried, 60% protein, bags, Balto area ton. 140.00 - —
Fluorspar, dom., acid grade, bulk, c.l., mine ton. 60.00 - —
ceramic grade, 93-96% CaF_2, grd., bulk, c.l., mine ton. 57.50 - —
85-92% CaF_2, grad., bulk, c.l., mine ton. 47.00 - —
metallurgical grade, briquets, pellets, 65% CaF_2, bulk, c.l., mine ton. 34.00 - —
lump, 59-65% effective CaF_2, bulk, c.l., mine ton. 40.00 - —
washed gravel, 59-60% effective, CaF_2, bulk, c.l., mine ton. 40.00 - —
60-65% effective CaF_2, bulk, c.l., mine ton. 40.00 -41.00
65-70% effective CaF_2, bulk, c.l., mine ton. 42.00 - —
70% or better, effective CaF_2, bulk, c.l., mine ton. 43.00 - —
Formaldehyde, NF, (inhibited), dms., c.l., Zone 1, dlvd lb. .062 - —
Zone 2 lb. .065 - —
l.c.l., dlvd lb. .069 - —
tanks, Zone 1, dlvd lb. .0375- —
Zone 2, dlvd lb. .0420- —
methanol-free (uninhibited), tanks, Zone 1, dlvd lb. .0345- —
Zone 2, dlvd lb. .0395- —
Fleaseed (see Psyllium seed).
Fringetree bark, bls lb. .60 - .61
Fuller's earth, bgs., c.l., Ill. mines, ton. 19.00 - —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines ton. 17.50 - —
calcined, bgs., c.l., same basis ton. 20.00- .21.75
oil-bleaching grade, 100-mesh, bgs., c.l., same basis ton. 16.50 -17.00
200-mesh, bgs., c.l., same basis ton. 17.50 -18.00
spent, bgs., c.l., shipt. point ton. 4.50 - 5.00
Furfural, dms., c.l., works lb. .13 - —
l.c.l., works lb. .14 - —
tanks, works lb. .115 - —
Fusel oil, refined, dms., c.l., dlvd lb. .17½ - —
l.c.l., dlvd. lb. .18½ - —
tanks, dlvd lb. .15 - 15¼
Fustic extract, cryst., No. 1, bbls., l.c.l. lb. .47½ - —
No. 2, bbls., l.c.l. lb. .45½ - —
No. 3, bbls, l.c.l. lb. .43½ - —
liquid, No 1, bbls., l.c.l. lb. .22½ - —
No. 2, bbls., l.c.l. lb. .21½ - —
No. 3, bbls., l.c.l. lb. .19 - —
solid, No. 1, bxs., l.c.l. lb. .45 - —

G

G salt, 100% basis, bbls., frt alld lb. .73 - —
Gammapicoline (see g-Picoline).
Gasoline, tanks, refy., ex tax, Arkansas, 84 octane gal. .11¼ - —
Group 3, 84 octane gal. .1075- .11375
Gulf coast, 83 octane gal. .10 - .11¼
N. Y. Harbor, 86 octane gal. .1345- .143
Penn. western US motor 86 octane gal. .1375- .1418
natural, group 3, 26-30 octane gal. .04½ - —

When your product depends on quality, rely on . . .



Jefferson Ethanolamines are made by and for chemical specialists to help improve your products and processes. They offer the performance-minded chemical manufacturer superior results in a wide variety of industrial applications that include:

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- Corrosion inhibition
- Textile intermediates and softeners
- Detergents
- Cosmetic and toilet goods
- Emulsifying soaps in waxes, polishes and coatings
- Pharmaceuticals
- Rubber

and many other quality-demanding uses

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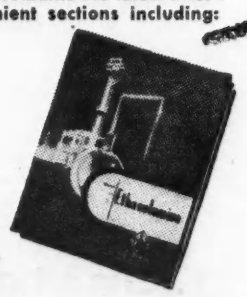

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260 MADISON AVENUE, NEW YORK 16, N. Y.

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Ethylene Oxide
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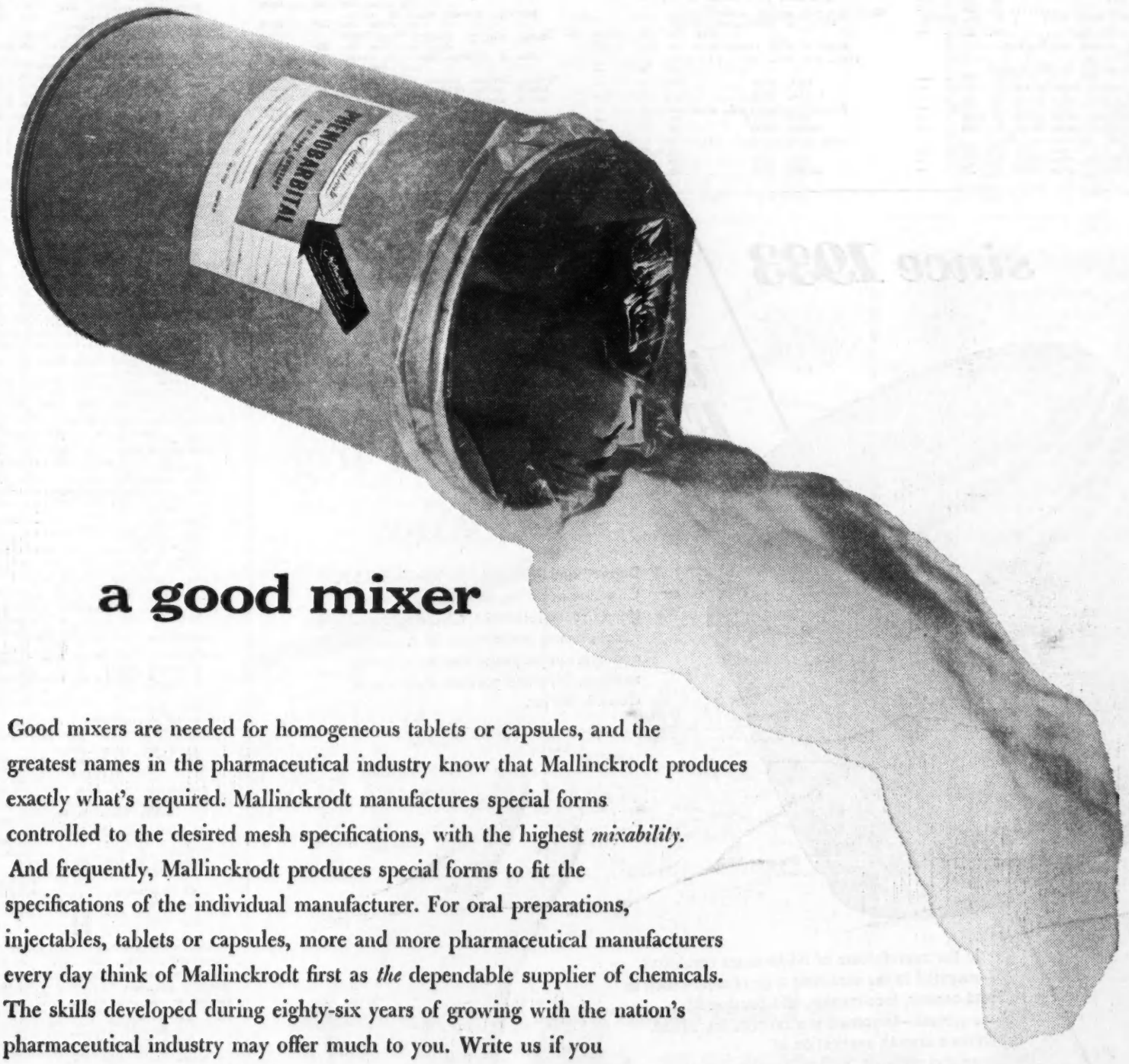
Ethylene Dichloride
Diethylene Glycol
Monoethanolamine
Diethanolamine
Triethanolamine
Nonyl Phenol
Morpholine
Ethylene Carbonate
Propylene Carbonate
Polyethylene Glycols
Glycol Ethers

when using fine chemicals . . . to be sure (√) check the source



a good mixer

Good mixers are needed for homogeneous tablets or capsules, and the greatest names in the pharmaceutical industry know that Mallinckrodt produces exactly what's required. Mallinckrodt manufactures special forms controlled to the desired mesh specifications, with the highest *mixability*. And frequently, Mallinckrodt produces special forms to fit the specifications of the individual manufacturer. For oral preparations, injectables, tablets or capsules, more and more pharmaceutical manufacturers every day think of Mallinckrodt first as *the* dependable supplier of chemicals. The skills developed during eighty-six years of growing with the nation's pharmaceutical industry may offer much to you. Write us if you have questions or a problem.

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Gelatin—Hexylresorcinol

Gelatin, edible, pure (pork skin), 75 Bloom test, std. bbl., c.l. lb. .37 - —
150 Bloom test, std. bbl., c.l. lb. .68 - —
200 Bloom test, std. bbl., c.l. lb. .74 - —
225 Bloom test, std. bbl., c.l. lb. .77 - —
275 Bloom test, std. bbl., c.l. lb. .84 - —
Gelsemium root, bls lb. .23 - .24
Gentian root, bls lb. .17 - .20
grd., bbls., bxs lb. .22 - .23
powd., bbls., bxs lb. .23 - .24
Geraniol, extra, cns., dms lb. 1.90 - 2.20
standard, cns., dms lb. .60 - 1.00
Geranyl acetate, cns lb. 1.45 - 2.20
Ginger, oleoresin, NF, from African root, bots lb. 4.00 - 7.75
from Jamaican root, bls lb. 6.00 - 10.25
Root, African, bls lb. .25 - .26
Jamaica, No. 1, bgs lb. .40 - .42
No. 2, bgs lb. .30 - —
No. 3, bgs lb. .29 - —
Rhattoon, bgs lb. No prices.
Nigerian, split, bgs lb. .23 - —
Glauber's salt, anhyd see Sodium sulphate)
Glue, bone, extracted, 86 jellygrams, bgs., c.l., dlvd lb. .18 - —
104 jellygrams, same basis lb. .23½- —
131 jellygrams, same basis lb. .24 - —
164 jellygrams, same basis lb. .24½- —
191 jellygrams, same basis lb. .25 - —
222 jellygrams, same basis lb. .26 - —
packers' 40 jellygrams, bgs., c.l., dlvd lb. .15½- —
65 jellygrams, same basis lb. .16½- —
86 jellygrams, same basis lb. .17 - —
Glue, bone, packers, 115 jellygrams, same basis lb. .17½- —
138 jellygrams, same basis lb. .18½- —
164 jellygrams, same basis lb. .19½- —
renderers' 100 jellygrams, bgs., c.l., dlvd lb. .15 - —
Bone glue, l.c.l., prices 1c. higher.
hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .18 - —
95-121, bgs., c.l., dlvd lb. .20 - —
122-149, bgs., c.l., dlvd lb. .22 - —
150-177, bgs., c.l., dlvd lb. .24 - —
178-206, bgs., c.l., dlvd lb. .26 - —
207-236, bgs., c.l., dlvd lb. .28 - —
237-266, bgs., c.l., dlvd lb. .30 - —
267-298, bgs., c.l., dlvd lb. .32 - —
299-330, bgs., c.l., dlvd lb. .34 - —
331-362, bgs., c.l., dlvd lb. .36 - —
363-394, bgs., c.l., dlvd lb. .37 - —
395-427, bgs., c.l., dlvd lb. .38 - —
428-460, bgs., c.l., dlvd lb. .39 - —
461-494, bgs., c.l., dlvd lb. .40 - —
495-529, bgs., c.l., dlvd lb. .41 - .42
Hide glue l.c.l. prices 1c. higher.
Glycerine, nat., crude, saponification, 88%, to refineries, tanks, dlvd lb. .23 Nom.
soaplye, 80%, tanks, dlvd lb. .21 Nom.
refd., BP, 98%, dms., c.l., dlvd. lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
dynamite, dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
high gravity, dms., c.l., dlvd. lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
Glycerine, refd., USP, CP, 95%, dms., c.l., dlvd lb. .29½- —
l.c.l., dlvd lb. .30 - —
tanks, dlvd lb. .29 - —
yellow, distilled, dms., c.l., dlvd lb. .30 - —
l.c.l., dlvd lb. .30½- —
syn., dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
Glycine (see Acid aminoacetic).
Glycerol (see Glycerine).
Glyoxal, 30% dms., c.l. works lb. .18¼- —
l.c.l., works lb. .19 - —
tanks, works lb. .18 - —
Gold chloride, acid-brown, bots oz. 22.50 - 23.00
acid-yellow, bots oz. 20.00 - 20.50
Golden seal root, NF, tested, bls. lb. 2.25 - 2.50
powd., bxs lb. 2.75 - 3.25
Graphite, amorph., powd., bgs., fib. dms. ex whse lb. .06 - .09½
crystalline, 88-90%, powd., bgs., fib dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2, 90-95%, bgs., fib dms., ex whse lb. .29 - .31
Grease, brown, tanks, dlvd lb. .04⅝- —
house, tanks, dlvd lb. .05⅛- —
white, choice, not all hog, tanks, dlvd lb. .07¼- —
yellow, tanks, dlvd lb. .06½- —
Green, brilliant, thioflavin, toner, molybdated PMA kgs., works lb. 5.10 - —
tungstated PTMA kgs. works lb. 6.00 - —
Green, chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .38 - —
16-30%, bbls., same basis. lb. .39 - —
31-45%, bbls., same basis. lb. .40 - —
45-49%, bbls., same basis. lb. .43 - —
50%, bbls. same basis lb. .48 - —
reduced color, 25%, bbls., same basis lb. .19 - —

Chrome green prices are ½c. higher, dlvd., at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

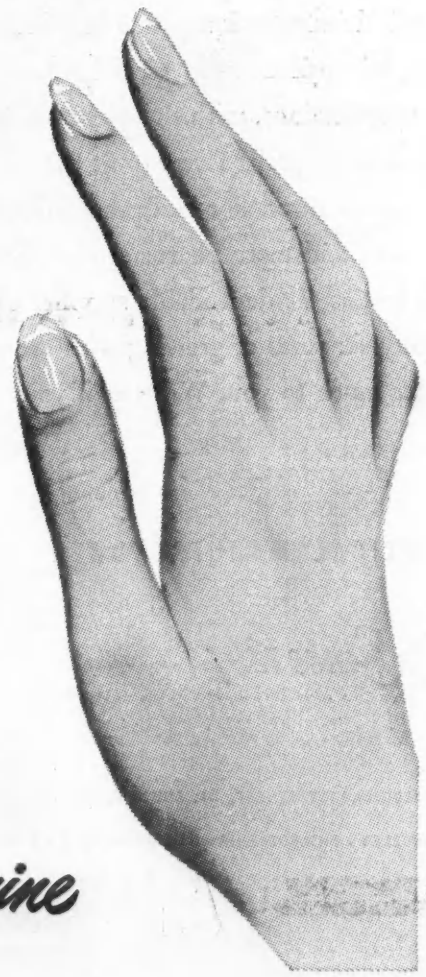
Chromium oxide, hydrated, bbls., dms., c.l., frt. alld lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld lb. .59¼- —
l.c.l., same basis lb. .39¾- —
Dyes (see Dyes, coaltar).
Malachite, straight, PTMA, bbls., works lb. 4.60 - —
Paris (see Paris green).
Phthalocyanine toner, bbls., works. lb. 3.95 - —
resinated, bbls lb. 3.50 - —
water dispersable, bbls lb. 1.71 - —
Pigment B, kegs lb. 1.35 - —
Grindelia robusta herb, bls lb. .44 - —
Guaiacol, NF, cryst., dms., tins lb. 2.10 - 2.15
liquid, cbys., dms lb. 2.30 - 2.40
Carbonate, NF VII, dms lb. 3.40 - 3.45
Gum, aloe (see Aloe).
Arabic, amber, sorts, bgs lb. .19 - —
powdered, USP, bbls lb. .23 - .24
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs lb. .38 - .42
Camphor (see C).
Cellulose, bgs., 23,000-lb. lots or more, works, frt. alld lb. .60 - —
smaller lots, same basis lb. .62 - —
Copal, Congo, No. 1, bgs lb. .20 - .22
No. 2, bgs. lb. .18 - .19
No. 3, bgs. lb. .16 - .17
Manila, C, bgs lb. .38 - .40
CBB, bgs. lb. .26 - .28
DBB, bgs lb. .23½- .25
DK, bgs lb. .18 - —
dust, bgs lb. .11 - .12½
soft, MA, bgs lb. .17 - .19
WS, bgs lb. .32 - .36
Philippine, pale, chips, bgs lb. .22 - .24
nubs, bgs lb. .30 - .32
seeds, bgs lb. .15 - .17
sorts, bgs lb. .18 - .20
Pontianak, chips, bgs lb. .20 - .22
nubs, bgs lb. .38 - .40
Dammar, Batavia, A/E, cs lb. .27 - .29
dust, bgs lb. .16 - .18
E, bgs lb. .20 - .22
East India, batu, bold, bgs. lb. .14 - .15½
nubs and chips, bgs lb. .08½- .09
black, bold, bgs lb. .14 - .16
unscraped, bgs lb. .11 - .13
nubs and chips, bgs lb. .11 - .13
pale, chips, bgs lb. .13 - .14
nubs, bgs lb. .18 - .20
Siam, cs lb. .35 - .37
Singapore, No. 1, bgs lb. .39 - .41
No. 2, bbls lb. .29 - —
No. 3, bbls lb. .25 - —
dust, bgs lb. .16½- .17
seeds, bgs lb. .20 - .22
Ester, gum-rosin type, dms., c.l., dlvd. fill., Ind., Ky., Mich., Mid-Atl. States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .15½- —
wood-rosin type, dms., c.l., same basis lb. .15 - —
Karaya, NF, powd., No. 1, bbls lb. .38 - —
No. 2, bbls lb. .28 - .29
No. 3, bbls. lb. .24 - .25
Locust bean, powd., bgs lb. .31 - .33
Myrrh, cs. lb. .38 - .40
Opium (see O).
Olibanum siftings, cs lb. .15 - .20
tears, cs. lb. .22 - .30
Rosin (see R).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs lb. 2.85 - 2.90
No. 2, cs lb. 2.45 - 2.50
No. 3, cs lb. 1.60 - 1.70
powdered, USP, bbls lb. 1.25 - 1.35
Gypsum, plaster of paris, 100-lb. paper bags, trucks, dlvd. N. Y. C ton 20.30 - —
terra alba, domestic, same basis. ton 19.00 - —
works, N. Y. C. ton 16.00 - —
imported, English, 100-lb. paper bags, ex dock, N. Y. C. ton 55.00 - —
ex warehouse ton 60.00 - 62.00

H

Hawthorn berries, bgs lb. .28 - .32
Heliotropin, cryst., cns lb. 3.50 - 4.25
Hellebore root dom. green, bls lb. .55 - .65
Helonias root, bls lb. 1.75 - 2.00
Hematine extract, cryst., No. 2, bbls., l.c.l. lb. .47 - —
No. 2, bbls., l.c.l. lb. .43 - —
No. 3, bbls., l.c.l. lb. .41 - —
No. 4, bbls., l.c.l. lb. .39 - —
No. 5, bbls., l.c.l. lb. .37 - —
paste No. 1 bbls. l.c.l. lb. .20½- —
Henbane leaves, bls lb. .35 - .40
Heptane, industrial, tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .14¾- —
Borger, Tex gal. .14¾- —
Hesperidin methylphalcone, bots., works lb. 50.00 - —
Hexachlorophene, dms lb. 2.60 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 1,000-lb. lots or more, Perth Amboy or N.Y.C. lb. .232 - —
smaller lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
smaller lots, same basis lb. .249 - —
USP, dms., 500-lb. lots or more, same basis lb. .40½- —
smaller lots, same basis lb. .41½- —
Hexamine (see Hexamethylenetetramine).
Hexane industrial, tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .15½- —
Borger, Tex gal. .13½- —
1-Hexanol, dms., c.l., works lb. .34½- —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Hexyl, cinnamic aldehyde, dms lb. 2.25 - 7.50
Salicylate, dms. lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .14½- —
l.c.l. dlvd. lb. .15½- —
tanks, dlvd. lb. .12½- —
n-Hexyl methacrylate, dms., less than truckload, works lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb. 14.00 - —
smaller lots, dlvd. lb. 14.50 - —

since 1933 / Glycerine is the Emollient

Daggett and Ramsdell, Inc. has used U.S.P. Glycerine as an ingredient in its "Perfect" Hand Cream since 1933. Glycerine is used in this famous beauty preparation for its emollient and hygroscopic properties. By retaining moisture, Glycerine prevents shrinkage of cream in the jar.



In the manufacture of oil-in-water emulsions—essential to the vanishing type of cream such as hand creams, face creams, and brushless shave creams—Glycerine is a favorite ingredient. It permits a smooth application of the cream and prevents "rolling" on the skin. It preserves the creams and lotions in good condition. Finally, Glycerine acts as a soothing agent to the skin.

Glycerine has many other properties which make it preferable for toilet preparations. It can act as a plasticizer, vehicle, penetrant, solvent, antifreeze and bodying agent. U.S.P. Chemically Pure Glycerine is fully accepted as safe for use in pharmaceuticals.

For the asking, we'll send you a 16-page booklet, "Why Glycerine for Drugs and Cosmetics?" detailing Glycerine's unique range of properties and applications. Write Glycerine Producers' Association, 295 Madison Avenue, New York 17, New York.

Nothing takes the place of Glycerine

Histamine diphosphate, USP, bots.	kilo	450.00	—
l-Histidine hydrochloride, NF, rib. dms., 50-kilo lots, works.	kilo	80.00	-85.00
1-5 kilo lots, works	kilo	90.00	-95.00
Homatropine hydrobromide, USP bots	oz	9.35	-10.60
Methylbromide, USP, bots	oz.	8.50	- 9.00
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton.		7.00	- —
Horehound herb, bls.	lb.	.16	- .19
Hydrastine bots	oz.	29.50	-31 00
Hydrochloride, NF, bots	oz.	29.50	-31 00
Sulfate, bots	oz.	35.00	-37.00
Hydrastinine, 10 grain bots	bot	1.95	—
Hydrastis (see Goldenseal).			
Hydrazine, free base, ret. dms., Lake Charles	lb.	3.00	- 3.30
Hydrate, 100%, ret. dms., Lake Charles	lb.	1.75	- 1.95
85%, ret. dms., same basis	lb.	1.35	1.55
Hydrobromic acid, dil. ctns., works	lb.	.30	.40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works	lb.	.45	- —
l.c.l., works	lb.	.55	- .60
Fluoride, anhyd., cyls., works	lb.	.27½	- .29
tanks, works	lb.	.21	- —
Peroxide, bbl. bots. dlvd	lb	.03¾	- .05
35%, chys., dlvd	lb.	.228	- —
dms., c.l., dlvd	lb.	.208	- —
l.c.l., dlvd.	lb.	.213	- —
tanks, dlvd.	lb.	.201	- —
Hydroquinone photo grade bbls. dms.	lb.	.98	1.06
tech., dms., c.l., frt. equald	lb	.77	—
l.c.l. frt equald	lb	.78	—
Hydroxycitronellal, cns	lb.	5.10	- 6.00
Hoscine salts (see Scopolamine.)			
Hyoscyamine, bots	oz.	15.75	-16.00
Hydrobromide, bots	oz.	11.00	-12.00
Sulfate, bots	oz.	10.50	-11.50
Hypernic extract, cryst., No. 2, bbls., l.c.l.	lb.	.52	- —
liquid No. 1 bbls., l.c.l.	lb	.35	- —
No. 2, bbls., l.c.l.	lb.	.27	- —

I

Ichthammol, NF, dms	lb.	.60	- .75
Indian red (see Red, Indian).			
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).			
Indole, CP, bots	lb.	17.00	-21.00
Inositol, bots., dlvd	lb	5.00	—
dms., dlvd.	lb.	4.50	4.75
Insect flowers (see Pyrethrum).			
Iodine, crude, kgs	lb.	1.15	- —
resublimed, USP, bots., jars	lb.	2.55	- —
Iodochlorohydroxyquinolin, USP, dms.	lb.	5.90	- —
Iodoform, NF, dms., kgs	lb	4.90	5.00
a-Ionone, cns	lb.	3.95	- 8.25
b-Ionone, cns	lb.	4.30	-11.25
Methyl (see under M)			
Ipecac root, bgs	lb.	6.50	- 6.75
powd., bbls., bxs	lb.	7.00	- 7.25
Irish moss bleached prime, bls	lb	.30	.35
Iron Compounds (see Ferric or Ferrous).			
Isoborneol, cns	lb.	1.25	- 1.70
Isobornyl acetate, cns	lb.	.62	- .95
formate, dms.	lb.	.80	—
Propionate, dms	lb.	1.15	- 1.45
Isobutyl acetate, perfume grade, cns	lb.	.75	- 1.00
solvent grade dms., c.l. dlvd E. of Rockies	lb.	.13¼	- —
l.c.l., same basis	lb.	.14¼	- —
tanks, same basis	lb.	.11¼	- —
Isobutyraldehyde, dms., dlvd	lb.	.50	—
Isoeugenol, cns	lb.	3.45	- 4.25
Isoniazid, powder, bulk, 25-kilo lots or more	kilo	23.00	-25.50
smaller lots	kilo	24.00	-26.00
Isopentane, commercial grade, tanks, f.o.b. Tex. refy	gal.	.15½	- —
Isonicotinic acid hydrazide (see Isoniazid).			
Isophorone, dms., c.l., works	lb.	.24¼	- —
l.c.l. works	lb.	.24¾	- —
tanks works	lb.	.22½	- —
Isopropanol (see Alcohol, isopropyl).			
Isopropyl acetate dms., c.l., dlvd.	lb.	.12	- —
l.c.l., same basis	lb.	.13	- —
tanks, same basis	lb.	.10	- —
Alcohol (see Alcohol, isopropyl).			
Benzene (see Cumene).			
Ether, dms., c.l., dlvd	lb.	.07	- —
l.c.l., dlvd	lb.	.08	- —
tanks, dlvd	lb.	.05	- —
Isopropylamine (see Mono, Di, or Tri-).			
Isoquinoline, dms., works	lb.	.65	- 1.25

J

Jalap root, NF, bls	lb.	.38	- .55
powd., bbls., bxs	lb.	.49	- .66
Juniper berries, bgs	lb.	.16	- .18
Tar, NF, dms	lb.	.42	- .60

K

Kaolin (see also Clay, China).			
NF, powd. fib. dms	lb.	.08	- .16½
colloidal fib. dms	lb.	.15	- .15½
Kerosene, tanks, refy., Ark., 42-44 specific gravity, w.w.	gal.	.095	- —
California, 40-43 s.g., w.w.	gal.	.138	- .148
Gulf ports, 41-43 s.g., w.w.	gal.	.09¼	- .09¾
N. Y. Harbor, 43-44 s.g., w.w.	gal.	.105	- —
Okla.-Tex., 41-43 s.g., w.w.	gal.	.09½	- .10
Penn., Western, 45 s.g., w.w.	gal.	.1145	- .1205
Kola nuts, bgs	lb.	.12	- —

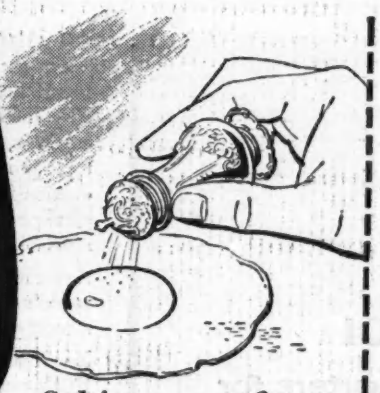
L

Lactose, crude, bgs., c.l., works	lb.	.15	- —
edible, fib. dms., 30,000-lb. lots, works	lb.	.22	- —
2,000-lb. lots, works	lb.	.22¾	- —
200-1,800-lb. lots, works	lb.	.23¼	- —
Edible lactose in bgs., 1c. lower.			
USP, fib. dms., 30,000-lb. lots, works	lb.	.24	- —
2,000-lb. lots, works	lb.	.24¾	- —
200-1,800-lb. lots, works	lb.	.25¼	- —
USP lactose in bgs., 1c. lower.			
Lady's slipper root, bls	lb.	1.70	- 1.75
Lanolin, cosmetic, dms., works	lb.	.33	- .36
USP, anhydrous, dms., works	lb.	.30	- .33
hydrous, dms., works	lb.	.29	- .32
Lard, cash, trcs., Chicago	lb.	.16¼	- —
Larkspur seed, bgs	lb.	.20	- .23
Lauryl chloride, distilled, dms., c.l., works, frt. equald	lb.	.74	- —
l.c.l.	lb.	.75	- —
Methacrylate, normal, dms., c.l. or truckload	lb.	.65½	—
Lavender flowers, medium, bls	lb.	.55	- .60
ordinary, bls	lb.	.18	- .20
select, bls	lb.	.90	- —
Lead acetate, white, crystals, bbls., gran. bbls	lb.	.22	- —
powd., bbls	lb.	.23	- —
NF, cryst., gran., powd	lb.	.31	- .32
Arsenate, acid powder, dealers, 3-lb. bgs., or larger, c.l., frt. alld. on 91 lbs. or more	lb.	.27½	—
l.c.l., frt alld	lb.	.28½	—
1-lb. bgs., c.l.	lb.	.41½	—
l.c.l.	lb.	.42½	—
Lead blue, basic sulfate, bbls., c.l., ship't point, frt. alld.	lb.	.14¾	- —
l.c.l., same basis	lb.	.15¾	- —
Carbonate (see Lead, white).			
Chloride, dms	lb.	.45	- —
Iodide, NF V jars	lb.	3.82	- —
Linoleate, fused, 26.5%, dms	lb.	.32½	- —
Metal, pigs, prime, N. Y.	lb.	.14	- —
St. Louis	lb.	.1380	- —
Metallic paste, dms., 20,000-40,000-lb. lots, works	lb.	.32¾	- —
10,000-20,000-lb. lots, same basis	lb.	.33¾	- —
2,000-10,000-lb. lots, same basis	lb.	.34¼	- —
200-2,000-lb. lots, same basis.	lb.	.34¾	- —
Prices ex whse. Jersey City, N. J., 4½c. per lb. higher.			
Monosilicate, bgs., c.l., works, frt. equald	lb.	.1493	- —
l.c.l., same basis	lb.	.1545	- —
Naphthenate, liquid, 16% Pb, dms., dlvd	lb.	.17½	- —
24% Pb. dms., dlvd	lb.	.23¾	- —
solid, 37% Pb. dms., dlvd	lb.	.31¼	- —
Nitrate, bbls.	lb.	.22¼	- —
Orthosilicate gel., 50% PbO, dms., works	lb.	.32¾	- —
60% PbO dms., works	lb.	.31¾	- —
Peroxide, powd., tech., bbls	lb.	.38¾	- .40¼
Phthalate, dibasic, dms., works	lb.	.41	- —
Red, 95% Pb_3O_4, or less, bbls., c.l., works, frt. equald	lb.	.16½	- —
l.c.l., same basis	lb.	.17	- —
97% Pb_3O_4, bbls., c.l., same basis	lb.	.16¾	- —
l.c.l., same basis	lb.	.17¼	- —
98% Pb_3O_4, bbls., c.l., same basis	lb.	.17	- —
l.c.l. same basis	lb.	.17½	- —
Resinate, precip., dms., dlvd	lb.	.28½	- —
Salicylate, normal, dms., works	lb.	.46	- —
Lead sulfate (see Lead, blue, basic sulfate; Lead, white, basic sulfate).			
Tallate, liquid, 18% Pb, dms.	lb.	.16	- —
24% Pb. dms.	lb.	.21¼	- —
White, basic carbonate, bgs., c.l., ship't point, frt. alld.	lb.	.16½	- —
l.c.l., same basis	lb.	.17½	- —
basic silicate, bgs., c.l., ship't point, frt. alld.	lb.	.15½	- .17¾
l.c.l., same basis	lb.	.16½	- .18¾
basic sulfate, bgs., c.l., ship't point, frt. alld.	lb.	.14¾	- —
l.c.l., same basis	lb.	.15¾	- —
Lecithin, edible, tech., bleached, non-ret., dms., c.l., works.	lb.	.15	- .17
l.c.l., same basis	lb.	.15½	- .17½
unbleached, non-ret., dms., c.l., same basis	lb.	.13	- .15
l.c.l., same basis	lb.	.14½	- 16½
dl-Leucine, dms., works	lb.	12.25	-15.00
Licorice root, whole, bbls.	lb.	.08	- .12
gran., bbls.	lb.	.12	- .17
powd., bbls.	lb.	.10	- .15
Lignosulfonate, 70% tannin, bgs., c.l., works	lb.	.06½	—
l.c.l., works	lb.	.06¾	—
Lime, agricultural, bulk, works	ton.	14.50	- —
Chemical (quicklime) lump, pebble, bulk, Adams, Mass	ton	12.50	- —
Annville, Pa	ton	11.50	- —
Austin, Texas	ton	9.50	- —
Bellefonte, Pa.	ton.	11.50	- —
Buffalo, N. Y.	ton	14.00	- —
Cedar Hollow, Pa.	ton	11.50	- —
Duluth, Minn.	ton.	12.50	- —
El Paso, Texas	ton	14.00	- —
Farnams, Mass.	ton.	14.00	- —
Gibsonburg, Ohio	ton.	12.50	- —

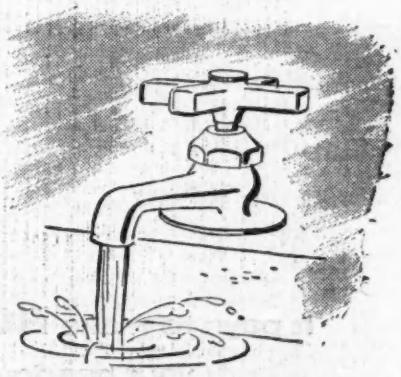
Histamine Diphosphate—Lime, Hydrated

Lime, chemical (quicklime), lump, pebble, bulk, Hannibal, Mo.	ton.	10.00	- —
Keystone, Ala.	ton	10.25	- —
Kimballton, Va.	ton.	10.25	- —
Knoxville, Tenn.	ton	10.50	- —
Lee, Mass.	ton	12.50	- —
Lewisburg, Ohio	ton	10.00	- —
Limedale, Ark.	ton	10.00	- —
Los Angeles, Cal.	ton	25.10	-25.84
Marble Cliff, Ohio	ton	10.00	- —
Martinsburg, W. Va.	ton.	11.00	- —
Mosher, Mo.	ton	10.75	- —
Nelson, Ariz.	ton.	14.50	-23.65
Quincy, Ill.	ton	10.00	13.00
Reddick, Fla.	ton	13.50	- —
Scotrock, Ala.	ton.	10.25	- —
Springfield, Mo.	ton	12.25	- —
Winooski, Vt.	ton	15.50	- —
Woodville, Ohio	ton	11.50	- —
York, Pa.	ton	13.50	- —
Hydrated, paper bags, Adams, Mass	ton	15.50	- —
Annville, Pa.	ton	14.50	- —
Austin, Texas	ton	13.00	- —
Bellefonte, Pa.	ton	14.50	- —
Buffalo, N. Y.	ton	16.00	- —
Cedar Hollow, Pa.	ton.	14.50	- —
Chicago, Ill.	ton	15.00	- —
Duluth, Minn.	ton	14.00	- —
El Paso, Texas	ton	17.50	- —
Engle, W. Va.	ton	14.50	- —
Farnams, Mass.	ton.	14.00	- —
Gibsonburg, Ohio	ton.	16.50	- —
Hannibal, Mo.	ton.	12.00	- —
Keystone, Ala.	ton.	13.50	- —
Kimballton, Va.	ton	13.50	- —
Knoxville, Tenn.	ton	13.00	- —
Lee, Mass.	ton	15.50	- —
Lewisburg, Ohio	ton	14.00	- —
Limedale, Ark.	ton.	12.00	- —

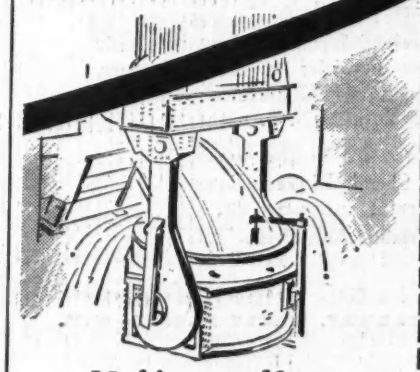
What has *aluminum* got to do *with...*



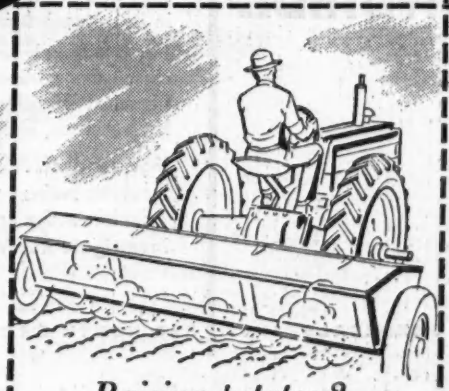
Salting an egg?



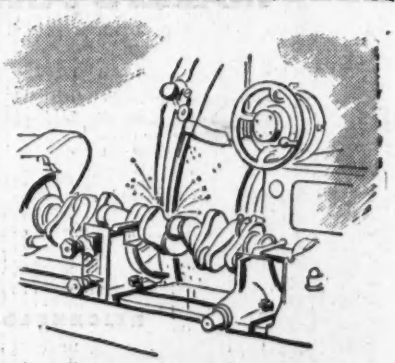
Purification of water?



Making steel?



Raising potatoes?



Grinding a crankshaft?

Alcan Chemicals are the answers

Alcan (Aluminum Company of Canada, Ltd.) offers industry the basic chemical ingredients used in ingot production and other chemicals associated with the aluminum processes. Many of these Alcan Chemicals are regularly used by industry to improve process applications and product quality.

In saltcellars, alumina, activated, absorbs moisture, makes salt easier to shake. For water purification, aluminum sulphate and chlorine are widely used in water treatment. Open hearth furnaces use magnesium oxide refractory bricks to increase steel output. Magnesia fertilizer is responsible for higher-yield potato crops. Alumina and bauxite are widely used for high quality abrasive wheels. These are only a few of the jobs done by Alcan Chemicals.

Co-operating in the production of Alcan Chemicals are a number of affiliated companies. Each of these sister companies specializes in its own field of endeavor such as: Laboratory research . . . exploring, mining and processing raw materials throughout the free world . . . development of shipping methods for the protection and speedy delivery of products.

One of Alcan's sister companies, Aluminum Import Corporation, distributes Alcan Chemicals in the United States. The *Import* office near you will be glad to help you with your special chemical requirements.

ALCAN CHEMICALS FOR INDUSTRY

- Alumina, Activated
- Alumina, Calcined
- Alumina Hydrate
- Aluminum Chloride, Anhydrous
- Aluminum Fluoride
- Aluminum Sulphate
- Bauxite
- Chlorine, Liquid
- Cryolite, Artificial
- Fluorspar
- Lime
- Magnesia
- Magnesium Chloride, Anhydrous
- Sodium Fluoride
- Sulphuric Acid

ALCAN Aluminum Chemicals

ALUMINUM IMPORT CORPORATION
One of the **ALUMINIUM LIMITED** group of Companies
Offices or Agents in 40 cities
Cable: ALIMPORT
630 Fifth Avenue, New York 20
20 North Wacker Drive, Chicago 6
422 Terminal Tower, Cleveland 13
611 Wilshire Boulevard, Los Angeles 14

Lime, Hydrated—dl-Methionine

Lime, hydrated, paper bags,
Marble Cliff, Ohio ... ton 13.50 - —
McNeil, Tex ... ton 13.00 - —
Menominee, Mich. ... ton 14.00 - —
Mosher, Mo. ... ton 13.00 - —
North Tazewell, Va. ... ton 12.75 - —
Quincy, Ill. ... ton 10.00 -12.00
Reddick, Fla ... ton 16.00 - —
Scotrock, Ala ... ton 13.50 - —
Springfield Mo ... ton 12.25 - —
Winooski, Vt ... ton 15.50 - —
Woodville, Ohio ... ton 14.50 - —
York, Pa ... ton 14.50 - —
Spray, paper bgs., Adams, Mass. ton 17.00 - —
Annville, Pa ... ton 17 00 - —
Austin, Texas ... ton 13 00 - —
Bellefonte, Pa ... ton 17 50 - —
Carey, Ohio ... ton 11.00 - —
Duluth, Minn. ... ton 15.00 - —
Engle, W Va. ... ton 14.50 - —
Farnams, Mass. ... ton 14 00 - —
Gibsonburg, Ohio ... ton 16 50 - —
Keystone, Fla ... ton 13.50 - —
Kimballton, Va ... ton 13.50 - —
Lee, Mass ... ton 17 00 - —
Lewisburg, Ohio ... ton 16 00 - —
Marble Cliff, Ohio ... ton 16 00 - —
McNeil, Tex. ... ton 16 00 - —
Menominee, Mich ... ton 14 00 - —
Mosher, mo. ... ton 13.00 - —
North Tazewell, Va ... ton 12 75 - —
Reddick, Fla. ... ton 16.00 - —
Rockland, Me. ... ton 10.00 - —
Springfield, Mo ... ton 12.25 - —
Scotrock, Ala. ... ton 13.50 - —
Winooski, Vt. ... ton 17.00 - —
Woodville, Ohio ... ton 16.50 - —
York, Pa ... ton 15.50 - —

Lime salts (see Calcium).

Lime-ammonia nitrogen 20.5% N (see Ammonium nitrate with dolomite).
Limestone, grd., bgs., works ... ton 3.50 - 4.00
Linalool, ex bois de rose oil, dms. lb 5.95 - 6.70
ex lignaloe wood oil, dms. ... lb 5.30 - 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms. ... lb 5.35 - 6.25
96-98%, dms ... lb 6.75 - 7.15
ex petitgrain, bots ... lb 3.90 - 5.25
Lindane, 25% formulation, dealers, dms., works ... lb 1.58 - —
dms., works ... lb 2.10 - —
99%, tech., dealers, dms., dlvd., lb 3.10 - —
Linden flowers with leaves, bls. lb .34 - .35
without leaves, bls ... lb .40 - .41
Linseed meal, expeller, 32-34% bulk, Midwest, mills ... ton 63.00 Nom.
extracted, 36%, bulk, same basis, ton 58.00 - —
Lithargè, coml., powd., bbls., c.l., works, frt. equald ... lb .15½- —
l.c.l., same basis ... lb .16½- —
Lithium benzoate dms ... lb 1.65 1.67
Bromide, NF bbls., works, frt. equald ... lb 2.10 2.75
Carbonate, tech., c.l., dlvd ... lb 1.00 - —
l.c.l., same basis ... lb 1.05 - 1.20
Chloride cryst., dms ... lb 1.22 - 1.28
Citrate, NF, bbls., dms., kgs ... lb 1.60 - 1.64
Fluoride, bbls., 10,000-lb. lots ... lb 2.15 - —
ton lots ... lb 2.20 - —
less ton lots ... lb 2.25 - —
Hydride powd. dms., works ... lb 12.00 -14.00
Hydroxide, monohydrate, ton lots, dms ... lb 1.10 - —
Salicylate dms ... lb 1.60 1.70
Lithopone, ordinary, bgs., c.l., dlvd. lb .07¼- —
l.c.l., dlvd. ... lb .08¼- .08½
Lithopone, titanated (high-strength), bgs., c.l., dlvd ... lb .10 - —
l.c.l., dlvd ... lb .11 - —
Litnopone prices, Pacific Coast, 1c. per lb. higher.
Lobelia herb, bls ... lb .45 - —
Lobeline sulfate, bots., works ... oz 29.50 -33.50
Logwood extract, crystals, No. 1, bbls., l.c.l ... lb .41 - —
No. 2, bbls., l.c.l ... lb .29 - —
liquid, No. 1, bbls., l.c.l ... lb .20 - —
No. 2, bbls., l.c.l ... lb .19 - —
No. 3, bbls., l.c.l ... lb .18½- —
solid, No. 1 ... lb .35 - —
Lycopodium, cs ... lb 1.50 - —
dl-Lysine hydrochloride, bots ... kilo 140.00 -150.00

M

Mace, Siauw, No. 1, bls ... lb 1.30 - 1.32
West Indian, No. 1, bls ... lb 1.30 - —
Magnesia, calcined, tecn., ctns. works lb .32 - .34½
synth., rubber grade, light bgs., works lb .23 - .25
extra light, works ... lb .31 - —
USP, light, ctns ... lb .34 - .36
heavy, bbls ... lb .36 - .38
Magnesite, chemical grade, calcined powd., bgs., c.l., works, frt. equald ton 82.50 - —
dead burnt, standard grain, bulk, c.l., Chewalah, Wash ton 38.00 - —
Magnesium bromide, jars ... lb .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb .09½- —
l.c.l., frt. alld ... lb .10½- —
bbls., c.l., frt. equald ... lb .10¾- —
l.c.l., frt. alld ... lb .11¾- —
kgs., c.l., frt. equald ... lb .12 - —
Magnesium carbonate, USP, bgs., c.l., frt. equald ... lb .11¼- —
l.c.l., frt. alld ... lb .12¼- —
bbls., c.l., frt. equald ... lb .11¾- —
l.c.l., frt. alld ... lb .12¾- —
kgs., c.l., frt. equald ... lb .13 - —
l.c.l., frt. alld ... lb .14 - —
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila county, Pa. Frt equald with N. Y. C. on all other destinations.
Chloride, anhyd., 95-98%, lump, dms., c.l., works, frt. equald lb .12¾- —
l.c.l., same basis lb .14 - .15
powd., bgs., c.l., works ... ton 50.00 - —
l.c.l., works ... ton 55.00 -105.00
hydrous, flake, bgs., c.l., works, ton 50.00 - —
l.c.l., bgs ... ton 55.00 -105.00
Gluconate, dms., cns ... lb 1.30 - 1.37
Glycerophosphate, dms., works lb 5.40 - 5.50
Hydroxide, NF medicinals, bbls., dms., kgs ... lb 28½ - .30
Hypophosphite, dms ... lb 1.60 - —
Metal, 99.8% ingots, cs., works ... lb .27 - —
sticks, cs., works, frt. alld. on carlots ... lb .46 - .48
Oxide (see Magnesia, calcined)
Peroxide, 15%, dms., works ... lb 1.00 - 1.05
Phosphate, tribasic, NF, bbls ... lb .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works ... lb .09 - .10
Sulfate, tech., bgs., c.l., works, 100 lbs. 2.15 - —
l.c.l., works ... 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal ... 100 lbs. 3.10 - —
smaller lots ... 100 lbs. 3.35 - —
Trisilicate, USP, dms., 5,000-lb. lots lb .38 - —
1,000-lb. lots ... lb .40 - —
100-lb. lots ... lb .45 - —
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.
Malathion, dms., works ... lb 1.05 - —
Maleic anhydride, dms., c.l., dlvd. E lb .27 - —
l.c.l., dlvd. E ... lb .28 - —
Prices on maleic anhydride W of Rockies, 1½c. higher.
Mandrake root, bls ... lb .32 - .34
Manganese acetate, bbls., dlvd lb .35 - —
Arsenate, bgs ... lb .16 - —
Borate, tech., bbls ... lb .24 - —
Carbonate, bbls., works ... lb .22 - —
Chloride, anhyd., dms., works. lb .25½- —
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, paper bgs., gross for net, works. ton 88.00 - —
paper-lined burlap bgs. works ton 91.50 - —
dms., works ... ton 94.00 - —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.
Gluconate, dms ... lb 1.79 - 1.93
Glycerophosphate, NF, fib dms lb 4.70 - 4.80
Hydrate, bbls., dlvd ... lb .36 - —
Hypophosphite, NF, dms ... lb 2.00 - —
Linoleate, liquid, 4.35% Mn., dms. lb .30½- —
solid, precip, 8.2% Mn., bbls lb .33½- —
Metal, cs., dlvd, East ... lb .30 - .32
Naphthenate, liquid 6% Mn., dms., frt. alld lb .27 - —
Resinate, fused, 3½% Mn., dms. lb 21¾- —
precip., dms ... lb 24½- —
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E. ton 80.50 - —
l.c.l., dlvd. S. E ... ton 87.50 - —
Tallate, 6%, dms ... lb .24¼- —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ... ton 69.00 -70.00
So. American, 30% tannin, c.l. ex dock ... ton 55.00 -58.00
Mannitol, com'l, dms., works ... lb .40 - .43
Melamine, bgs., ton lots, works lb .53 - —
500 to 2,000-lb. lots, works lb .33½- —
smaller lots, works ... lb .38½- —
Menadione, USP, bots. ... gram .06 - .06½
Menthol, nat., USP, Brazilian, cs. lb 6.00 - 6.25
Japanese, cs ... lb 14.00 - —
syn., USP, racemic, cns ... lb 4.95 - —
Menthyl salicylate, tins ... lb 4.00 - 4.25
2-Mercaptobenzothiazole, bgs., fib. dms. ton lots, works, frt. alld lb .38 - —
less ton lots, same basis lb .40 - —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton-lots, works, frt. alld lb .48 - —
less ton lots, same basis lb .50 - —
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more lb 4.58 - —
gran. or powd., dms., 50-lb. lots or more lb 4.38 - —
Cyanide, NF VIII, powd., fib. dms. lb 6.34 - 6.39
Iodide, red, NF, fib. dms ... lb 7.27 - —
yellow, NF, fib. dms ... lb 7.52 - —
Oxide, red, NF, powd., fib. dms. lb 5.42 - 5.46
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms ... lb 5.64 - —
Mercurous chloride (see Calomel).
Mercury, ammoniated (see White precipitate USP).
Metal, 76 lbs. per flask, net flask 279.00 -281.00
Mesityl oxide, dms., c.l., dlvd ... lb .1350- —
l.c.l., dlvd. ... lb .1450- —
tanks, dlvd. ... lb .1150- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Choloraniline)
Metanitroaniline (see m-Nitroaniline)
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine)
Metatolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld ... gal .70 - —
Prices on natural methanol W of Miss., 3c. higher.
syn., Zone 1, dms., c.l., dlvd., or truckload min., frt. alld. gal .42 - —
l.c.l., same basis ... gal .48 - —
tankwagon, 2-4,000 gals., dvld., metropolitan areas gal .30 - —
tanks, dlvd., or 4,000 gal. min., frt. alld gal .27 - —
4,000 gal. min., frt. equald. with Camden, N. J gal .25½- —
Zone 2, dms., c.l., or truckload min., frt. alld or dvld gal .47 - —
l.c.l., same basis ... gal .53 - —
tankwagon, 2-4,000 gals. min., dlvd. metropolitan areas. gal .35 - —
tanks, 4,000 gal. min., frt. alld. or dlvd gal .32 - —
Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methenamine (see Hexamethylenetretramine).
dl-Methionine, fib. dms., frt. alld., 50-lb. or more ... lb 4.50 - —
feed grade, 99%, 5b., dms. same basis lb 1.60 - —
97%, 5b. dms., same basis lb 2.97 - —

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There are sound reasons why you can rely on RCI for MALEIC ANHYDRIDE and other basic chemicals. Reichhold, as one of the most rapidly growing chemical firms, naturally wants to please. So it has set itself up to provide the ultimate in service...extensive production facilities, accessible warehouse stocks strategically spotted throughout the U.S., and technical aid available from numerous plants and sales offices.

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Formaldehyde
Glycerine
Maleic Anhydride
Phthalic Anhydride
Phenol
Sodium Sulfate
Sodium Sulfite

Methoxychlor, 50% wettable powder, dealers, dms. ca., frt. alld lb. .61 - .64
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 ..lb. .20½- —
l.c.l., same basis.....lb. .21 - —
hydrogenated, non-ret. dms., c.l., dlvd., zone 1....lb. .21 - —
l.c.l., same basis.....lb. .21½- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., l.c.l., E. of Miss., frt. alld..gal. .62½- —
syn., dms., c.l., frt. alld. E..gal. .57 - —
l.c.l., frt. alld. E.....gal. .63 - —
tanks, frt. alld E.....gal. .45 - —

Synthetic methyl acetone E. territory in all States East of and including Colo., Mont., N. Mex. and Wyo. West territory in all States West of those four.

Acrylate, dms., c.l., and truckload, works..lb. .44½- —
less than truckload, works..lb. .45½- —
tanks, works .....lb. .42¾- —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd. E. lb. .15 - —
l.c.l., dlvd. E .....lb. .16 - —
tanks, dlvd. E .....lb. .13 - —
Ketone, dms., works.....lb. 1.05 - —
Anthranilate, cns. .....lb. 2.50 - 2.65
Benzoate, cns., dms .....lb. .53 - .65
Bromide jobbers, cyls., various sizes, works lb. .47 - .61
Cellulose, special, vis. (1,500-4,000 cps.) 50-lb bgs., c.l., works lb. .78 - —
2,000-lb. lots and more, same basis..lb. .65 - —
smaller lots, frt. alld. on 100 lbs..lb. .89 - 1.00
standard vs. (15,400 cps.), 50-lb. bgs., c.l., alld..lb. .66 - —
2,000-lb. lots and more, same basis..lb. .72 - —
smaller lots, frt. alld. on 100 lbs..lb. .73 - .85
Chloride, indust., cyls., frt. equald. lb. .21 - —
tanks, multi-unit, same basis. lb. .15 - —
single unit, same basis..lb. .11½- —
refrigerator mfrs., cyls., dlvd lb. .40 - .42
other consumers or service men, cyls., dlvd lb. .57 - —
Cinnamate, cns.....lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works..lb. .35½- —
l.c.l., works .....lb. .36 - —
tanks, works .....lb. .34 - —
Ethyl ketone, dms., c.l., dlvd..lb. .13 - —
l.c.l., dlvd .....lb. .14 - —
tanks, dlvd .....lb. .11 - —
Formate, refd., dms.....lb. .35 - .40
tech. non-ret. dms., any quantity, works lb. .00 - —
tanks works .....lb. .07 - —
Heptin carbonate, bots.....lb. 33.00 - 42.00
p-Hydroxybenzoate, fib. dms....lb. 1.90 - 2.00
Ionone, standard, cns., dms....lb. 3.80 - 4.65
Isobutyl carbinol, dms., c.l., dlvd..lb. .15 - —
l.c.l., dlvd.....lb. .16 - —
tanks, dlvd .....lb. .13 - —
Ketone, dms., c.l., dlvd.....lb. .15 - —
l.c.l., dlvd. .....lb. .16 - —
tanks, dlvd. .....lb. .13 - —
Lactate, dms. l.c.l., works lb. .35 - —
Methacrylate, dms., c.l., and truckload, frt. equald., with Belle, W. Va., and Arlington, N. J. lb. .36½- —
smaller lots, same basis..lb. .37 - —
tanks same basis .....lb. .35 - —
Naphthyl ketone, cryst., cns..lb. 3.60 - 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate).
Roseaniline chloride, NF, fib. dms. lb. 5.44 - —
Salicylate, USP, cns., 50 lb. lots..lb. .58 - —
dms. .....lb. .53 - —
Testosterone, USP, 100-gram bots. gram. .79 - —
Methyl-5-ethyl pyridine, dms., c.l., works..lb. .47½- —
l.c.l., works.....lb. .48 - —
tanks, works .....lb. .46 - —
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted .....lb. 3.25 - 3.60
smaller lots, same basis...lb. 3.40 3.60
Chloride, industrial, dms., c.l., dlvd. E lb. .13½ - —
Methylionone A, cns.....lb 6.55 8.80
D, cns .....lb 7.50 9.55
Prime cns .....lb 4.55 6.40
Standard, dms., cns.....lb. 3.80 - 4.65
Methylnaphthalene, 32°C m.p., dms., works..lb. .90 - —
Methylparaben (see Methyl parahydroxybenzoate)
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone (see 1-Phenyl-3-methyl-pyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works..lb. .04¼- —
roofing, 20 to 80 mesh, works.lb. .03 - .04
wet-grd., biotite, bgs., c.l., works, frt. alld., E. lb. .06¼- —
l.c.l., ex-whse. ur frt. alld. E. lb. .07 - —
paint, or lacq., bgs., c.l., works, frt. alld. lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E. lb. .08¼- —
rubber, bgs., c.l., works, frt. alld. E. lb. .07½- —
l.c.l., ex-whse. or frt. alld. E. lb. .08½- —
wallpaper, bgs., c.l., works, frt. alld., E. lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E. lb. .08¼- —
white, extra fine, bgs., c.l., works, frt. alld. E. lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E. lb. .08½- —
Mica, wet-grd. W. of Miss R. ½c. higher. W. of Rockies, 1c. higher.
Milk powder, non-fat, roller, bgs., c.l...lb. .12 - .1535
spray, bgs., c.l.....lb. .14 - .1610
whole, roller, bgs., c.l.....lb. No prices.
spray, bgs., c.l.....lb. .27 - .31
Milk sugar (see Lactose).
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans..gal. .10¼- .11
New York .....gal. .12 - —
Molybdenum metal, 98% Mo powd., kgs lb 3.00 Nom.
Dioxide, pure, kgs., works, basis Mo. content lb. 1.40 - —
technical, kgs. works, basis Mo. content lb. 1.15 - —
Monobutylamine, dms., c.l., E. of Rockies..lb. .55 - —
l.c.l., same basis .....lb. .56 - —
tanks, same basis .....lb. .53 - —
Monochlorobenzene dms., c.l., frt. alld. or dlvd. E lb. .11½- —
l.c.l., same basis .....lb. .12½- —
tanks, same basis .....lb. .10 - —
Monochlorobenzene prices in the West, 1¼c higher.

Monoethanolamine, dms., c.l., dlvd. E..lb. .26¾- —
l.c.l., same basis.....lb. .27¾- —
tanks, same basis .....lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd. E. lb. .33 - —
l.c.l., dlvd. E.....lb. .34 - —
tanks, dlvd. E.....lb. .31 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylortnotoluidm (see N-Ethyl-o-toluidine).
Monoisopropylamine, dms., c.l., dlvd. lb. .30½- —
l.c.l., same basis.....lb. .31½- —
tanks, same basis .....lb. .28½- —
Monomethylamine, 25%-40% dms., c.l., frt. equald., 100% basis. lb. .37 - —
l.c.l., same basis.....lb. .37½- —
tanks, same basis .....lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-Butyl-m-cresol).
Morphine, cns. .....oz. 12.40 -12.60
Acetate, anhyd., cns.....oz. 9.95 -10.00
Hydrobromide, cns .....oz. 9.90 9.95
Hydrochloride, NF, cns.....oz. 9.90 9.95
Sulfate, USP, cns.....oz. 9.90 -10.05
Morpholine dms., c.l., dlvd. E lb. .54¾- —
l.c.l., dlvd. E.....lb. .55¾- —
tanks, dlvd. E.....lb. .52¾- —

Musk, natural, Tonquin grains, bots. oz. No stocks.
synthetic, ambrette, 100-lb. lots, fib. dms..lb. 5.15 - —
23-lb. lots, cns.....lb. 5.20 - —
5-lb. lots, cns .....lb. 5.30 - —
ketone, 100-lb. lots, fib. dms..lb. 5.30 - —
25-lb. lots, cns.....lb. 5.35 - —
5-lb. lots, cns.....lb. 5.45 - —
xylol, 100-lb. lots, fib. dms..lb. 1.40 - —
25-lb. lots, cns.....lb. 1.45 - —
5-lb. lots, cns.....lb. 1.50 - —
Mustard seed, Danish, yellow, bgs.lb. .11 - .11½
Dutch, yellow, bgs.....lb. .11 - .11½
English, yellow, bgs.....lb. .12 - .12½
Montana, Oriental, bgs.....lb. .09½- —
yellow, bgs. .....lb. .12 - —
Myrobalans, J-1, assorted, bgs., ex dock..ton. 47.00 -48.00
crushed, bgs., ex dock.....ton. 63.00 - —
ordinary, bgs., ex dock.....ton. 43.00 - —
extract, Indian, solid 53% tannin, ex dock, plus duty...lb. .07¼- —

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see Solvent).
Naphthalene, crude, dom., 74° tanks, frt. equald lb. .045 - —
78°, dms., c.l., same basis lb. .059 - —
l.c.l., same basis.....lb. .0615- —
tanks, same basis.....lb. .05 - —
imported, 78°, large lots.....lb. .04½- .04¾
refd., indust., dom., chipped or crushed, bgs., frt. equald. lb. .10½- —
flake, bgs., same basis..lb. .11½- —
tanks, same basis.....lb. .09¾- —

Naphthalene, refd., balls, flakes, wholesalers, jobbers, bbls., c.l., same basis..lb. .13¾- —
ea., 50 lbs. e.l. same basis..lb. .14 - —
1-lb. pkgs. e.l. same basis..lb. .16¼- —
a-Naphthol, bbls., frt. alld.....lb. 1.00 - —
b-Naphthol, resublimed, dms., works. lb. .78½- —
tech., bbls., c.l., works.....lb. .32½- —
l.c.l., works .....lb. .34½- —
Benzoate, fib. dms., works.....lb. 3.00 - —
custom contract, works...lb. 1.65 - —
Salicylate, dms.....lb. 5.00 - —
Sulfate, cns.....lb. 35.00 - —
a-Naphthylamine, bbls., frt. alld lb .50 - —
b-Naphthylamine, tech., bbls., works. lb. 1.05 - 1.10
Neocinchophen, USP, dms., frt. adjusted lb 7.00 8.00
Neomycin, fib. dms., 100-kilo lots, basis, activity gram. .60 - —
1-kilo lots, basis, activity gram. 1.20 - —
Nerolin, cns. .....lb. 2.45 2.65
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd.....lb. .75 - .88¼
Carbonate, bbls., dlvd .....lb. .71 - .78
Chloride, bbls., dlvd .....lb. .37 - .48
Formate, bbls., ton lots, frt alld. lb. .64 - .68
Metal, electro cathodes, cs, works..lb. .60 - —
Nitrate, bbls., works .....lb. .36 - .37
Oxide, black, bbls. .....lb. .69 - —
Sulfate, bgs., c.l., dlvd.....lb. .29 - —
l.c.l., dlvd.....lb. .29½- .37

Versatile intermediates, solvents and acid acceptors

DU PONT
N-METHYLCYCLOHEXYLAMINE
TECHNICAL
AND RELATED COMPOUNDS

N-METHYLCYCLOHEXYLAMINE TECHNICAL is a water-white liquid with a specific gravity of 0.86 at 20°C. It is soluble in both alcohol and ether but only slightly soluble in water. It may show traces of cyclohexylamine and N,N-dimethylcyclohexylamine.

SPECIFICATIONS: Purity: 99% minimum
Methylaniline content: 0.3% maximum
Distillation range: Distills 5 to 95 cc. within 2.0°C., including 149°C, corrected to 760 mm.

OTHER ALKYLATED ANILINES are available on request from Du Pont. Be sure to get in touch with us if your process calls for any member of the aniline group. Remember, too, Du Pont has the facilities to develop specific intermediates, custom-made to fit your requirements. A request on your letterhead will bring complete information.

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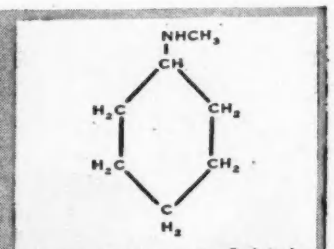
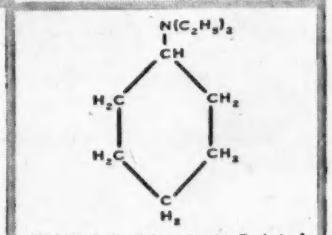
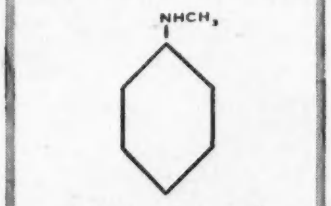
Organic Chemicals Department, Chemicals Division
Wilmington 98, Delaware



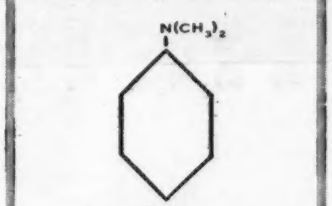
N-Methylcyclohexylamine Technical



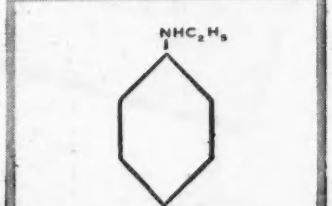
N,N-Diethylcyclohexylamine Technical



N-Methylaniline Technical



N,N-Dimethylaniline Technical



N-Ethylaniline Technical

ORGANIC CHEMICALS DEPARTMENT
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BETTER THINGS FOR BETTER LIVING...THROUGH CHEMISTRY

Nicotinamide—Oil, Mace

Nicotinamide, USP, dms., frt. adjusted kilo. 12.00 - 12.30
Hydrochloride, dms., frt. adjusted. kilo. 11.50 - 11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld lb. 1.20 - —
manufacturers, 500-lb dms., frt. alld lb. 1.03 - —
Niger seed, bgs lb. .14½ - .15
Nikethamide, cbys lb. 5.75 - 6.00
m-Nitroaniline, dms., frt. alld lb. 1.05 - —
o-Nitroaniline, flaked, dms lb. .54 - .57
powd., dms lb. .60 - —
p-Nitroaniline, dms., c.l., frt. alld. lb. .50½ - —
l.c.l., frt. alld lb. .53½ - —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld lb. .12 - —
l.c.l., frt. alld lb. .13 - —
tanks, frt alld lb. .11 - —
o-Nitrobiphenyl, tech., dms., c.l., works lb. .14½ - —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .34 - —
l.c.l., same basis lb. .35 - .37
18-25 cps., bbls. c.l lb. .36 - —
l.c.l., same basis lo. .37 - .39
250-400, 600-1,000 secs., bbls., same basis lb. .39 - —
l.c.l., same basis lb. .40 - .42
Spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., same basis lb. .41 - —
l.c.l., same basis lb. .42 - .44
Nitrocellulose, spirit-soluble, 5-6, 40-60 secs., bbls., c.l., same basis lb. .40 - —
l.c.l., same basis lb. .41 - .43

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

2-Nitro-4-chlorobenzene, dms lb. .20 - .21
4-Nitro-2-chlorobenzene, dms lb. .26 - .27
2-Nitro-4-chlorophenol, dms lb. .75 - —
Nitroethane, dms. dlvd E. of Rockies. lb. .25 - —
Nitrogen solution, tanks, frt. equald, 37-40.8% N, 100% basis ton. 128.00 - —
Nitrogenous process tankage bulk, works unit-ton. 3.65 - 4.40
Sewage sludge, bulk, works unit-ton. 3.75 + .50
Nitromethane, dms. l.c.l., dlvd E. of Rockies lb. .25 - —
a-Nitronaphthalene, bbls, frt. alld. lb. .41 - —
Nitropropane 1, dms., dlvd. E. of Rockies lb. .23¼ - —
2, dms., dlvd. E. of Rockies lb. .25 - —
l.c.l., works lb. .24¼ - —
tanks, works lb. .22¾ - —
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms., works, frt. equald lb. .50 - —
o-Nitrotoluene, dms., c.l., frt. alld. lb. .10 - —
l.c.l., frt. alld lb. .11 - —
tanks, frt. alld lb. .09 - —
p-Nitrotoluene, dms., works lb. .33 - .36
m-Nitro-p-toluidine, dms lb. 1.59 - —
Nitrous ether, conc., bots 100-lb. lots lb. 1.28 - 1.33
Nonyl phenol, dms., c.l., works, frt. alld lb. .30 - .30¾
l.c.l., works lb. .30½ - .31¼
tanks, works lb. .29 - —
Nutgalls, Aleppo, bgs. lb. .38 - —
Chinese, bgs lb. .45 Nom.
Nutmeg, East Indian, whole, bgs lb. .41 - —
shrivels, bgs. lb. .37½ - .38
West Indian, bgs lb. .29½ - —
Nux vomica, bls lb. .10 - .12
powdered, bbls., bxs lb. .15 - .17

O

Octane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .15¾ - —
Borger, Tex gal. .15¾ - —
1-Octanol, tech., dms., c.l., dlvd., lb. .35 - —
l.c.l., dlvd lb. .37 - —
tanks, dlvd lb. .32½ - —
Octyl phenol, dms., c.l., works lb. .23¾ - —
l.c.l., works lb. .24¾ - —
tanks, works lb. .22¾ - —

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies siberica, cns lb. 2.05 - 2.55
Almond, artificial, bitter (see Benzaldehyde)
natural, bitter, F.P.A., bots lb. 3.00 - 3.40
NF, bots. lo. 3.25 - 3.75
sweet, USP, dms., cns lb. .55 - .90
Allspice (see Oil, pimento).
Amyris, dms. lb. 1.40 - 1.85
Angelica root, bots lb. 66.00 -100.00
seed, bots lb. 56.00 - 95.00
Aniline (see A).
Oil, anise, USP, dms lb. 3.25 - 3.75
Apricot, kernel, USP, dms lb. .45 - .50
Avocado, cns lb. 3.25 - —
Babassu, crude, tanks lb. No stocks.
Bay, NF, Puerto Rican, 50-55%, cns lb. 1.45 - 1.90
55-60%, cns. lb. 1.60 - 2.10
West Indian, 50-55%, cns., dms. lb. 1.45 - 2.25
Bergamot, nat., NF, Italian, cns. lb. 10.75 -13.00
Birchtar, crude, cns lb. 1.75 - 1.90
rectified, NF, cns lb. 2.00 - —
Bois de Rose, Brazil, dms lb. 3.95 - 4.25
Mexican (see Oil, linaloe wood).
Bone, dms., works lb. .65 - .70
Cajeput, native, cns lb. 2.00 - —
redist., USP, cns lb. 2.50 - 3.00
Calamus, bots lb. 12.00 -20.00
Camphor, sassafrassy, dms lb. .35 - .45
white, dms. lb. .31 - .38
Cananga, native, cns lb. 7.85 -10.25
rectified, cns. lb. 12.50 -13.75
Capsicum (see Capsicum oleoresin)
Cardamom, NF, bots lb. 40.00 -50.00
Cassia, USP (see Oil, cinnamon, USP).
Castor, blown, dms., c.l. lb. .20 - —
l.c.l. lb. .2150- —
dehydrated, bodied, dms., c.l. lb. .2260- —
l.c.l. lb. .2310 —
tanks lb. .2160- —
unbodied, dms., c.l. lb. .2110- —
l.c.l. lb. .2160- —
tanks lb. .2010- —
hydrogenated, bgs., l.c.l. lb. .2350- .2450
No. 3, tech., dms., c.l. lb. .1775- —
l.c.l. lb. .1825- —
tanks lb. .1677- —
No. 1, Brazilian, tanks lb. .1575- —
sulfonated, 50%, dms., l.c.l. lb. .13½ - .14
75%, dms., l.c.l. lb. .17 - .17½
USP, dms., c.l. lb. .1800- —
l.c.l. lb. .1850- —
tanks lb. .1700- —
refined and deodorized, dms., c.l. lb. .1950- —
l.c.l. lb. .20 - —
tanks lb. .1850- —
Cedarleaf, cns., dms lb. 2.25 - 3.00
Cedarwood, cns., dms lb. .75 - 1.00
Celery seed, bots lb. 15.00 -21.00
Chamomile, blue, Hungarian bots. lb. 185.00-280.00
Chinawood (see Oil, tung).
Cinnamon bark, bots lb. 30.50 -34.25
leaf, cns. lb. 1.25 - 3.25
USP, cns., dms., (Cassia) lb. No stocks.
Citronella, Ceylon, cns., dms lb. .85 - 1.15
Java, true, dms lb. .80 - .90
Java-type, cns. lb. .90 - 1.20
Clove, USP, cns., dms lb. 3.75 - 4.50
Coconut, crude, tanks, N. Y. lb. .14 - —
Pac. Coast lb. .13¾ - —
refined, Cochin type, tax incl. ret. dms., l.c.l. lb. .21¼ - —
deodorized, tax incl., non-ret. dms., c.l. lb. .24½ - —
Cod, Newfoundland, dms. lb. .10½ - —
Codliver, USP, dms. gal. 1.55 - 1.65
Copaiba, cns lb. 1.80 - 2.50
Coriander, USP, bots lb. 15.25 -20.00
Corn, crude, tanks, works lb. .15 - .15½
foots (soapstock), acid 95%, tanks, N. Y. lb. .07 - —
refined, salad, dms lb. .19¾ - .20½
tanks lb. .18¼ - —
Costus, bots. oz. 9.00 - —
Cottonseed, crude, tanks, South-East lb. .14¾ Nom.
Valley lb. .14⅝ Nom.
Texas lb. .14½ Nom.
foots (soapstock), acid 95%, tanks, N. Y. lb. .04 - —
raw, 50%, tanks, same basis. lb. .02 - —
refined, salad, dms. lb. .19½ - .19¾
tanks lb. .18 - —
Creosote (see Creosote, coaltar).
Crude (see Petroleum, crude).
Cubeb, cns. lb. 4.50 - 6.00
Cumin, bots., cns lb. 4.15 - 4.30
Cypress, bots. lb. 5.30 - —
Degras (see D).
Dillseed, bots lb. 2.80 - 4.25
Dillweed, dom., bots., dms lb. 4.30 - 5.30
Dip (see D)
Erigeron, cns. lb. 5.50 - 7.50
Eucalyptus, NF, rectified, 70-80%, dms lb. .60 - .95
80-90%, dms lb. .75 - 1.25
Fennel, sweet, USP, cns lb. 2.30 - 3.25
Fir, Canada, cns lb. 2.35 - 2.80
Fish, refined, alkali, dms lb. .1400- .1500
kettle-bodied, dms lb. .1580- .1680
light-pressed, dms lb. .1250- .1350
tanks lb. .1050- .1100
Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gm., dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gm., dms. 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gm., dms. 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gm., dms. 1,000,000 units .10½ - .11
100,000 A units per gm., dms. 1,000,000 units. .12 - .14
200,000 A units per gm., dms. 1,000,000 units. .12 - .14
300,000 A units per gm., dms. 1,000,000 units. .12 - .14¼
400,000 A units per gm., dms. 1,000,000 units. .12 - .14¼
500,000 A units per gm., dms. 1,000,000 units. .12 - .14¼

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.

Fusel (see F).
Garlic, pure, bots oz. 6.00 - 9.50
Gaultheria (see Oil, wintergreen)
Geranium, Algerian, cns lb. 9.00 -12.00
Bourbon, cns. lb. 10.50 -13.50
Turkish (see Oil palmarosa)
Ginger, dist., bots lb. 9.85 -13.50
Grapefruit, dms. lb. 2.50 - 3.25
Grease, No. 1, dms lb. .13 - .13¼
extra, winter, strained, dms. lb. .17 - .17½
prime, burning, dms lb. .18 - .18½
Guaiacwood, cns lb. 1.40 - 1.90
Hemlock, cns. lb. 2.10 - 2.50
Juniper berry, NF, VIII, bots lb. 2.75 - 4.00
twice rectified, bots lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns lb. .65 - —
Lard (see Oil, grease).
Laurel leaf, dms., cns. lb. 9.75 -12.50
Lavandin, dms., cns lb. 2.00 - 2.85
Lavender, flower, USP, French, 30-32% ester, cns. lb. 2.50 - 4.50
38-40% ester, cns lb. 5.60 - 7.25
40-42% ester, cns lb. 4.75 - 6.90
Spike, Spanish, cns lb. 1.50 - 2.00
Lemon, USP, Calif., cns., dms lb. 6.35 - 6.50
Messina, cns. lb. 6.05 - 8.50
terpeneless, bots lb. 32.00 -85.00
Lemongrass, cns., dms lb. 1.30 - 2.00
Lignaloe wood, Mex., cns lb. 3.70 - 4.50
Lime, distilled, Mexican, cns lb. 5.25 - 6.50
West Indian, cns lb. 5.40 - 7.25
expressed, West Indian, cns lb. 7.75 - 8.50
terpeneless, bots lb. 29.50 -160.00
Linseed, raw, dms., c.l., N. Y. lb. .1825- —
l.c.l. lb. .1850- .1900
tankcar, f.o.b. Minneapolis. lb. .1550- —
New York lb. .1675- —
tankwagon, New York lb. .1705- —
Boiled linseed oil, .006c. per lb. higher.
Mace, dist., cns., dms lb. 3.00 - 4.25

...Let Norda Help

Cash in your scents for dollars . . . profit dollars . . . bigger business.

Plan your perfumed product to appeal to every woman you hope will buy it. Give it the smell that will tell her—instantly—that she likes it. Give it the odor that will keep pleasing her—never tire her—as she uses it every day. Make it subtle, make it friendly—but *always* make it distinctive.

Use Norda odors, fragrances, and scents. They appeal, at first smell. They wear wonderfully well. That's because Norda has—for so many years—created quality only.

You know how quality sells and pulls in the dollars.

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601 West 26th Street, New York 1, N. Y.

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Oil, mandarin, Floridian, dms.	lb.	2.75	- 5.35
Italian, cns.	lb.	6.25	- 8.50
Menhaden, crude, tanks, Atlantic Coast	lb.	.07	- —
Gulf ports	lb.	.07¼	Nom.
Mineral, white (see Oil, white mineral)			
Mirbane (see Nitrobenzene).			
Mustard seed, nat., dms.	lb.	.18	Nom.
synthetic, cans, dms.	lb.	1.60	- 1.85
Neatsfoot, 15° cold test, dms.	lb.	.33	- .34
20° cold test. dms.	lb.	.32	.33
30° cold test. dms.	lb	30	31
Neroli, NF, French, bots.	lb.	85.00	-250.00
Spanish, bots	lb.	35.00	-85.00
Nutmeg, USP, dist., East Indian, cns., dms	lb	2.85	3.65
West indian cns. dms	lb	2.60	3.65
Ocotea, cymbarum, dms.	lb.	.90	- 1.30
Oiticica, liquid, dms.	lb.	.19	- .19½
tanks	lb.	.17½	- 17¾
Oleo, extra, dms.	lb.	.19½	Nom.
Olibanum, bots.	lb.	5.50	7.65
extra fine, bots	lb	8.00	—
Olive, edible, dms., duty paid gal.		2.15	- 2.25
Orange, sweet, dist., cns	lb.	.40	80
expressed USP Brazilian, cns., dms	lb	No stocks.	
Calif., cns., dms	lb.	.67	- 1.25
Florida, cns., dms	lb.	.64	1.25
Messina, cns	lb.	3.85	5.85
West Indian, cns., dms	lb	2.50	3.65
sesquiterpeneless, bots.	lb.	65.00	-120.00
Origanum, Spanish, cns.	lb	1.95	2.85
Palm, clarified, dms.	lb.	.1240-	.1250
kernel, denat., tanks	lb.	.13	- —
Palmarosa, cns.	lb.	7.30	- —
Paraffin, pale, 100-110 vis., at 100 F tanks, East Coast refinery	gal	14	—
Patchouli, dms.	lb.	8.00	- 9.25
Peach kernel, USP, (see Oil apricot kernel).			
Peanut, crude, tanks, f.o.b. mills.	lb.	.16⅝	- —
refined, dms.	lb.	.21⅞	- .22⅜
tanks	lb.	.20⅜	- —
Pennyroyal, USP, imported, cns.	lb.	1.60	2.40
Peppermint, natural, dms.	lb.	5.60	- 6.40
redist., USP, dms.	lb.	5.95	- 7.00
Persic, USP (see Oil, apricot kernel).			
Petitgrain, South American, cns., dms.	lb.	3.25	- 3.70
Pimento, berry, NF, dms.	lb.	4.00	- 5.60
leaf, cns.	lb.	2.35	2.75
Pine, dest-dist., dms., l.c.l., works.	lb.	.11¼	- —
ex-whse.	lb.	.13¼	- —
steam dist., dms., ex whse., N.Y.C.	lb.	.151	- —
Pineneedle Siberian (see Oil, abies siberica).			
Rapeseed, tankcars	lb.	.17	- —
Red (see Acid, oleic).			
Rice bran, clarif., dms.	lb.	.17	Nom.
tanks, dlvd. E	lb.	No stocks	
Rose, natural, Bulgarian, bots.	oz.	43.50	-62.25
Rosemary, Spanish, USP, cns., dms.	lb.	.65	- .90
tech., cns., dms.	lb.	.50	- .70
Rue, bots.	lb.	1.65	- 2.30
Safflower dms. c.l. Atlantic coast.	lb.	.18½	- —
tanks, same basis	lb.	.17	- —
Sage, clary bots.	lb.	20.00	-25.00
Dalmatian, cns.	lb.	5.85	- 7.25
Spanish, cns.	lb	90	1.25
Sandalwood, NF, cns.	lb.	10.00	-11.75
Sardine, crude, tanks, Pac. coast.	lb	No stocks.	
Sassafras, artificial, dms.	lb.	.85	- 1.19
natural Brazilian (See Oil, ocotea cymbarum)			
domestic, USP, cns., dms.	lb.	1.65	- 2.20
Savin, cns.	lb.	2.75	- —
Savory, cns.	lb.	4.25	- —
Sesame, refd., dms	lb.	.36	- .37
Shingle stain, tar distillate, dms., c.l., works	lb.	.33	- —
l.c.l., works	lb.	.35	- —
tanks, works	lb.	.23	- —
Snakeroot, Canada, cns.	lb.	29.50	-31.00
Soybean, crude, tanks, Decatur.	lb.	.14¼	- —
foots (soapstock), acid, 95%, tanks, N. Y.	lb.	.08	- —
raw, 50%, tanks, N. Y.	lb.	.04	- —
refined, alkali, dms.	lb.	.18¼	- .18½
tanks	lb.	.16¾	- —
clarified, alkali, dms.	lb.	.17¾	- .18
tanks	lb.	.16¼	- —
salad, dms.	lb.	.18½	- .19
tanks	lb.	.17	- —
Spearmint, USP, dms.	lb.	5.40	- 6.30
Sperm, bleached winter, 45°, dms.	lb.	.15¾	- .16¼
tankcars	lb.	.14	- —
natural winter, 45°, dms.	lb.	.1475	- .1550
tankcars	lb.	.1300	- —
Spruce, cns., dms.	lb.	2.10	- 2.75
Sweet birch, USP, Northern, cns.	lb.	4.25	- 9.50
Southern, cns.	lb.	2.50	- 3.00
Tall, crude, tanks, works	ton.	40.00	- —
refined, dms., c.l., works	lb.	.06¼	- —
l.c.l., works	lb.	.06½	- .07
tanks, works	lb.	.05	- .05½
Tallow, acidless, dms.	lb.	.11¼	- .11¾
Tansy, dms.	lb.	7.75	- 9.00
Tar, pine, com'l., dms., extra, c.l., works	gal.	.42½	- —
l.c.l., works	gal.	.50½	- —
whse	lb.	.0675	- —
tanks, works	gal.	.33½	- —
rectified, NF, dms. incl., l.c.l., works, South	gal.	.90	- —
whse. N.Y.C.	gal.	1.00	- —
Tar acid (see P)			
Theobroma (see Cocoa butter).			
Thyme, NF, red, cns., dms	lb.	1.70	- 3.75
white, cns.	lb	1.95	4.00
tech. white, cns	lb.	.40	1.85
Tung, dms., c.l., N. Y.	lb.	.24	- —
l.c.l., same basis	lb.	.24½	- .25
tanks, N. Y.	lb.	.22⅜	- —
domestic mills	lb.	.23½	Nom.
Turkey red (see Oil, castor, sulphonated).			
Turpentine, NF, cns., dms	lb	.30	45
Vetiver, Bourbon, cns.	lb.	14.00	-17.50
Haitian, cns.	lb.	11.80	-21.00
Java, cns.	lb.	22.50	-40.00
Wheat germ, 5-gal. dms.	gal.	10.00	-13.00
White mineral, tech., 50-65 vis., non-ret. dms., c.l., f.o.b., N. Y.	gal.	.51½	- .54½
65-75 vis., non-ret., dms., c.l., same basis	gal.	.52½	- .53
l.c.l., same basis	gal.	.57½	- .58½
80-90 vis., non-ret., dms., c.l., same basis	gal.	.53½	- .56½
l.c.l., same basis	gal.	.58½	- .59½
125-135 vis., non-ret., dms., c.l., same basis	gal.	.59½	- .62½
l.c.l., same basis	gal.	.64½	- .65½
145-155 vis., non-ret., dms., c.l., same basis	gal.	.66	- .68½
l.c.l., same basis	gal.	.71	- .71½
175-185 vis., non-ret., dms., c.l., same basis	gal.	.69½	- .73
l.c.l., same basis	gal.	.74½	- .75
USP, 200-210 vis., non-ret. dms., c.l., same basis	gal.	.73½	- .75
l.c.l., same basis	gal.	.77½	- .78
345-355 vis., non-ret., dms., c.l., same basis	gal.	.77	- .80
l.c.l., same basis	gal.	.83	- .85
Wintergreen, USP, nat., Northern, cns.	lb.	6.35	-10.30
Southern cns	lb.	3.20	-19.50
synthetic (see Methyl salicylate).			
Wood (see Oil, tung).			
Wormseed, cns.	lb.	6.75	- 8.00
Wormwood, cns.	lb.	5.00	- 6.85
Ylang-ylang, Bourbon, bots.	lb.	17.00	-30.00
extra, bots.	lb.	28.00	-40.00
Madagascar, bots.	lb.	No stocks.	

Oleostearine, bbls.	lb.	.15¼	- —
Opium, USP, cns.	lb.	19.20	-19.45
gran., USP, cns.	lb.	21.65	-21.90
powd., USP cns	lb.	21.65	-21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies	lb.	1.56	- —
Chrome, CP., bbls., dlvd. N of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul	lb.	.31	- —
Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport), 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City. Wichita prices are equalized with Chicago.			
Dinitroaniline toner	lb.	1.30	- —
Mineral, American, bbls. l.c.l., works	lb.	.1945	- .1960
Molybdated, bbls.	lb.	.44	- —
o-Nitroaniline toner, kgs	lb.	1.15	- —
Orange peel bitter, Haitian, bls	lb.	.14	- .16
sweet, bls.	lb.	.16	- .18
Orris root, Florentine, bls.	lb.	.35	- .40
Verona, bls.	lb.	.29	- .31
powdered, bbls., bxs	lb.	.35	- .40
Orthoaminobiphenyl (see o-Aminobiphenyl).			
Orthoanisidin (see o-Anisidine).			
Orthochloroanilin (see o-Chloroaniline).			
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).			
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).			
Orthochlorophenol (see o-Chlorophenol).			
Orthocresol (see o-Cresol).			
Orthodichlorobenzene (see o-Dichlorobenzene).			
Orthonitroanilin (see o-Nitroaniline).			

Orthonitrochlorobenzene (see 2-Nitro-4-chlorobenzene).			
Orthonitrobiphenyl (see o-Nitrobiphenyl).			
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).			
Orthonitrophenol (see o-Nitrophenol).			
Orthonitrotoluene (see o-Nitrotoluene).			
Orthophenetidin (see o-Phenetidine).			
Orthophenetidin (see o-Phenetidine).			
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).			
Orthotolidin (see o-Tolidine base).			
Orthotoluidin (see o-Toluidine).			
Usage orange, crystals No 1, bbls., l.c.l	lb.	.49	- —
extract, liquid No 1, bbls., l.c.l	lb	.19	—
Ouabain, USP, bots	grams	3.00	4.00
Ox bile, extract, powdered, USP 5 lb. lots or more, ctns	lb.	6.00	- —
not extract, powdered 5-lb lots or more, ctns	lb.	4.35	- —
Oxyquinolin sulfate, cns., 100-lb. lots, works	lb	4.75	5.00
smaller lots, works	lb.	4.93	5.17

P

Pancreas substance, assay 1:75 bots., 5-lb. lots or more	lb	5.75	—
Pancreatin USP bots	lb	2.50	3.00
Papain, USP, African, bots.	lb.	4.00	- 4.50
Ceylon	lb.	3.00	- 3.50
Papaverine natural or synthetic hydrochloride, USP, cns., 25 oz. to 100 oz. lots	oz	5.00	—
smaller lots	oz	5.55	5.20
Sulfate, cns.	oz.	7.10	- 7.35

Paprika, Roumanian, bgs.	lb.	.30	- .33
Spanish, bgs.	lb.	.37	- .39
Yugoslavian, bgs.	lb.	.38	—
Para-anisidin (see p-Anisidine).			
Para-acetylaminobenzaldehyde thiosemicarbazone (see p-Acetylaminobenzaldehyde thiosemicarbazone).			
Para-aminophenol (see p-Aminophenol).			
Parachloroanilin (see p-Chloroaniline).			
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).			
Parachloro-orthonitroanilin (see 4-Chloro-2-nitroaniline).			
Parachlorophenol (see p-Chlorophenol).			
Paracresol (see p-Cresol).			
Paradibromobenzene (see p-Dibromobenzene).			
Paradichlorobenzene (see p-Dichlorobenzene).			
Paraffin, crude scale, white, 121°-123°F, ASTM, solid, c.l., ref'y	lb.	.0710-	—
fully refined, 122°-124°F, ASTM, slabs loose, c.l., ref'y	lb.	.0845-	—
125°-127°F, ASTM, slabs loose, c.l., ref'y	lb.	.0845-	—
130°-132°F., ASTM, slabs loose, c.l., ref'y	lb.	.0855-	—
132°-134°, ASTM, slabs, loose, c.l., ref'y	lb.	.0855-	—
135°-137°F., ASTM, slabs loose, c.l., ref'y	lb.	.0855-	—

Prices for paraffin in bags and ctns., c.l. 7/10¢ per lb higher; 1,000 to 9,999 lbs., 2.7c per lb higher and under 1,000 lbs., 3.7c. per lb. higher

AMP temperatures are an arbitrary 3° F. higher than ASTM.

Exchange Brand is the 4-to-1 favorite over all other lemon oils *combined!*

Year after year, Exchange Brand *quality* proves itself in sales. That's because Exchange Lemon Oil comes only from California lemons grown and skillfully processed by Sunkist Growers.

When a little lemon oil goes so far, why risk buying anything but the best?

Sunkist Growers

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Distributed in the U. S. exclusively by
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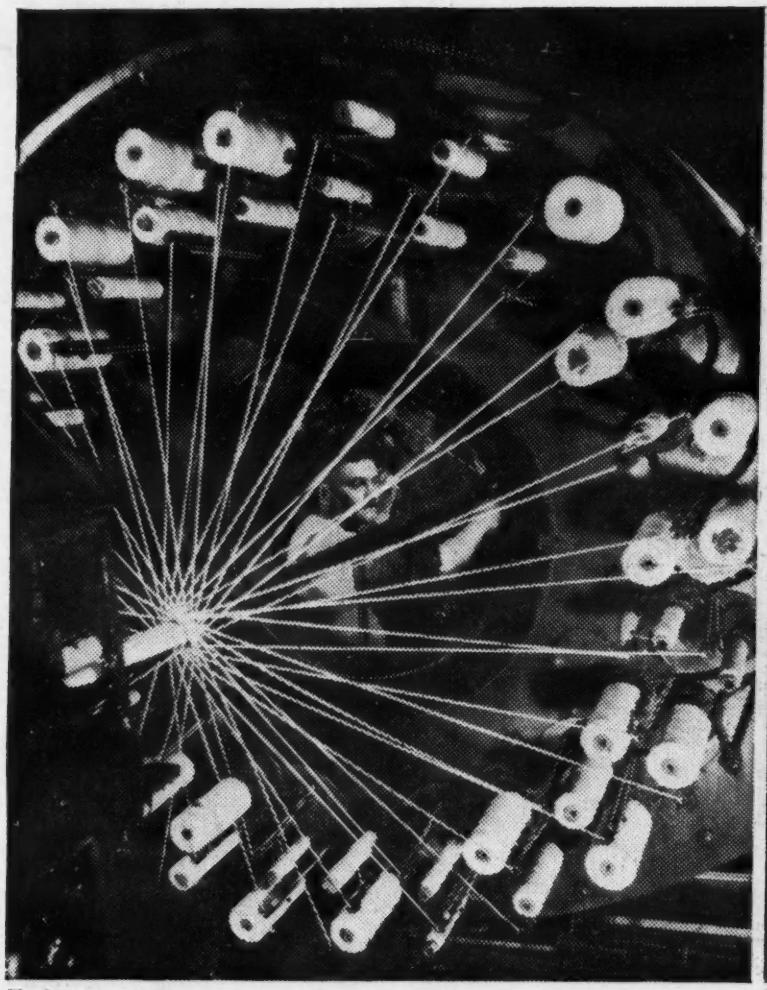
180 Varick St., New York 14, N. Y.
FRITZSCHE BROTHERS, INC.
76 Ninth Ave., New York 11, N. Y.

Exchange
OIL OF LEMON U. S. P.

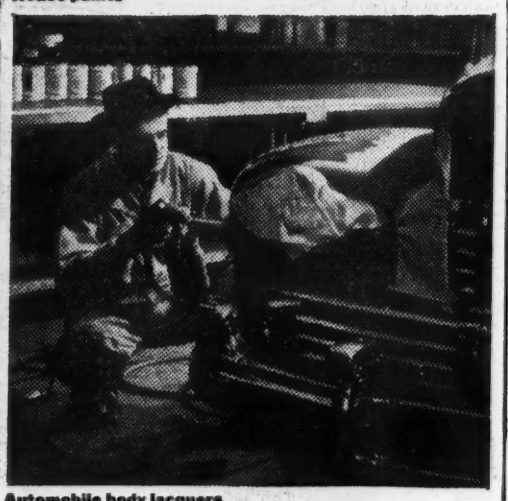
Paraformaldehyde—m-Phenylenediamine

Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld lb. .10¾- —
l.c.l., frt. alld lb. .12¼- —
powd., bgs., c.l., frt. alld lb. .15½- —
l.c.l., frt. alld lb. .17 - —
USP X, fib, dms., c.l. lb. .183 - —
10,000-lb. lots lb. .193 - —
1,000-lb. lots lb. .193 - —
smaller lots lb .208 - —
Paraldehyde, tech., 98%, 55-gal. dms., c.l., works lb. .13¼- —
l.c.l., works lb. .14½- —
tanks, works lb. .11½- —
Paranitroanilin (see p-Nitroaniline).
Paranitrochlorobenzene (see 4-Nitro-2-chlorobenzene).
Paranitrophenol (see p-Nitrophenol).
Paranitrotoluene (see p-Nitrotoluene).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-arylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion spray powder, 15% dealers, dms., works lb. .48 - .49
tech., dms., works lb. 1.62 - 1.64
Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paratoluidine (see p-Toluidine).
Paris green, dealer, distributor, dms. c.l., works, frt alld. on 96 lbs or over lb. .36 - .40
l.c.l., same basis lb .37 - .53
Passion flower herb, bls lb. .21 - .23
Peanut meal, 45%, old process, bgs., mills ton 82.00 - —
solvent process, bgs., same basis ton 80.00 - —
Pectin, citrous, NF, powd., bbls lb 2.03 - 2.08
tech powd bbls lb 1.80 - —
imported, Danish, ex whse lb 1.28 - —
Penicillin, crystalline, potassium, sterile bulk, 1,000,000 units .08½- .09
Procaine, bulk, 1,000,000 units .08½- .09
Sodium, sterile, bulk, 1,000,000 units .08½- .09
Pentachlorophenol, dms., c.l., works, frt equald lb. .21 - —
c.l., same basis lb. .24 - .29
truckload, 20,000 lbs. min same basis lb. .21¼- —
Pentaerythritol, tech., bgs., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol)
Pentane, industrial, tanks, Tex. refy gal. .14½- —
Pepper, black, Malabar, spot, bgs lb. .52 - .53
red, Gondar, spot bgs lb. .24 - .25
Japanese, hontaka, bgs lb. .35½- .36
birdseyes, bgs., new crop lb. .56 - —
Mombasa, bgs., ship't. lb. .66 - —
Nigerian, bgs. lb. .28 - —
Turkish, bgs. lb. .23 - .24
Zanzibar, bgs. lb. .55 Nom
white, bgs. lb. .64 - .65
Peppermint leaves, USP, dom., bls., dms lb. .70 - .75
imported, bls. lb. 1.25 - —
Pepsin, NF, 1:3,000 bulk lb. 3.45 - 3.50
Perchloroethylene, dms., c.l., or truckloads, frt. alld lb. .11¾- —
dlvd. E lb. .12¼- —
l.c.l., dlvd. ex whse lb. .13½- —
tanks, dlvd. E lb. .09¾- —
Peru balsam, dms lb. 1.30 - 1.70
Petrolatum, amber, dms., c.l., refy. lb. .05 - .05¾
l.c.l., dlvd lb. .06¾- .07
tanks, refy lb. .03¼- .04⅛
cream, dms., c.l., refy lb. .06½- .07⅛
l.c.l., dlvd lb. .08½- .08¾
tanks, refy lb. .04⅜- .05⅛
extra, amber, dms., c.l., refy lb. .05¼- .05⅞
l.c.l., dlvd lb. .07 - .07¼
tanks, refy lb. .03¼- .04⅛
USP, white, lily, dms., c.l., refy. lb. .06⅝- .07½
l.c.l., dlvd lb. .08⅞- .09⅛
tanks, refy lb. .04⅞- .06
snow, dms., c.l., refy lb. .07⅛- .07¾
l.c.l., dlvd lb. .09⅛- .09⅝
tanks, refy lb. .05⅜- .05⅞
soft, dms., c.l., refy lb. .06¾- .07⅜
l.c.l., dlvd lb. .08½- .08¾
tanks, refy lb. .05 - .05½
yellow, soft, dms., c.l., refy lb. .05¼- .05⅝
l.c.l., dlvd lb. .06⅞- .07⅛
tanks, refy lb. .03½- .05⅛
Petroleum, crude, bulk, at wells, California bbl. 1.42 - 3.53
Illinois bbl. 2.69 - 2.02
Kentucky bbl. 2.62 - 3.02
Louisiana-Arkansas bbl. 2.33 - 3.23
Montana bbl. 1.53 - 2.90
Oklahoma-Kansas bbl. 2.48 - 2.90
Penna. grade bbl. 3.26 - —
Texas, East bbl. 2.90 - —
Gulf Coast bbl. 2.63 - 3.23
North, North-Central bbl. 2.48 - 2.90
Panhandle bbl. 2.48 - 2.90
West bbl. 2.35 - 2.90
Wyoming bbl. 1.53 - 2.90
fuel oil, bunker C, No. 6, East Coast, Baltimore, Md bbl. 2.25 - —
Boston, Mass. bbl. 2.29 - —
Charleston, S. C. bbl. 2.20 - —
Jacksonville, Fla bbl. 2.18 - —
New York Harbor bbl. 2.25 - —
Norfolk, Va. bbl. 2.23 - —
Philadelphia, Pa bbl. 2.20 - 2.23
Petroleum, fuel oil, bunker C, No. 6, East Coast, Portland, Me. bbl. 2.20 - —
Providence, R. I. bbl. 2.26 - —
Savannah, Ga. bbl. 2.20 - —
West Coast bbl. 1.80 - 2.15
diesel, tanks, refy., California, gal. .1025- .133
New York gal. .096 - —
Penna., western gal. .1075- .11
furnace, tanks, refy., Arkansas, No. 2 gal. .08625- —
No. 3 gal. .0825- —
N. Y. Harbor, No. 2 gal. .095 - —
Group 3, No. 1 gal. 08375- —
No. 2 gal. .0775- .08375
No. 3 gal. .07875- .08125
range gal. .08875- .09375
Pennsylvania, western, No. 1, gal. .109 - .1185
No. 2 gal. .105 - .111
No. 3 gal. .105 - .1075
Lacquer diluent, 150°-240°F., b.r., tanks, West Coast, ex tax, Los Angeles gal. .168 - .183
East coast, N. J., N. Y. gal. .19 - —
Group 3, benzol-type gal. .14125- —
toluol-type gal. .13125- —
Mineral spirits, regular tanks, California, ex tax, San Francisco gal. .163 - —
East coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .11875- —
tankwagon, Boston gal. .19 - —
Buffalo gal. .195 - —
Chicago gal. .279 - —
Cleveland gal. .22 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .195 - —
specially refd., tanks, refy., Watson, Calif. gal. .244 - —
Borger, Tex. gal. .24 - —
Houston, Tex gal. .24 - —
Wood River, Ill. gal. .2625- —
dlvd. N. J. gal. .32 - —
dlvd N. Y. gal. .33½- —
tankwagon, N. J., dlvd gal. .36 - —
N. Y., dlvd gal. .37 - —
Naphtha, cleaners, tanks, East Coast, N. J., and N. Y. gal. .17 - —
Group 3 gal. .12875- —
tankwagon, Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
High solvency (see Petroleum solvent, partial aromatic).
V.M.&P., 225°-300°F., b.r., tanks, West Coast, Los Angeles. gal. .168 - —
Portland, Ore. gal. .174 - —
San Francisco gal. .173 - —
Seattle, Wash. gal. .174 - —
East Coast, N. J., N.Y. gal. .18 - —
Group 3 gal. .12875- —
tankwagon, Boston gal. .205 - —
Chicago gal. .289 - —
Cleveland gal. .23 - —
Newark gal. .195 - —
New York gal. .195 - —
Philadedphia gal. .20 - —
Pittsburgh gal. .19 - —
Solvent, partial aromatic, tanks, East Coast, N. J., N. Y., 205° 292° F., b.r., 37° 38°C, m.a.p. gal. .24 - .26
17°-29°C, m.a.p. gal. .29 - .30
256°-383°F., b.r., 35°C., m.a.p. gal. .29 - —
27°-28°C. m.a.p. gal. .29 - .29½
19°C. m.a.p gal. .34 - —
310°-392°F. b.r., 30°-38°C. m.a.p. gal. .27 - .30
17°-19°C., m.a.p. gal. .35 - .38
350°-425° F. b.r., 32°-34° C. m.a.p. gal. .30 - .30½
25°C., m.a.p. gal. .39 - .39½
18°-21°C., m.a.p. gal. .35 - .42½
rubber, tanks, Cal., ex tax, San Francisco gal. .173 - —
East Coast, N. J., N. Y., gal. .18 - —
Group 3 gal. .12875- —
Stoddard, tanks, East Coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .12375- —
Pennsylvania, western gal. .15 - —
tankwagon, Boston gal. .19 - —
Chicago gal. .289 - —
Cleveland gal. .22 - —
Los Angeles, ex tax gal. .173 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works lb. .16 - .18¼
l.c.l., works lb. .17 - .18½
tanks, works lb. .14 - .16½
50-55% sulfonic content, non-ret. dms., works lb. .15½- —
l.c.l., works lb. .16½- —
tanks, works lb. .12½- —
o-Phenetidine, dms., works lb. 1.00 - —
p-Phenetidine, dms., works lb. 1.00 - —
Phenobarbital, USP, dms., 100-lb. lots lb. 4.00 - —
Phenobarbital-sodium, USP, dms., 100-lb. lots lb. 4.00 - —
Phenol, 90-92% (cresol 8-10%), non-ret. dms., c.l., frt. alld. E. of Rockies lb. .15¾- —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .14 - —
82-84% (cresol 16-18%), non-ret. drums, c.l., same basis. lb. .15¼- —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13½- —
39° or above, tar distilled, non-ret. dms., c.l., same basis lb. .17¼- .17¾
l.c.l., same basis lb. .18 - .18½
tanks, same basis lb. .15½- —
USP, synthetic, dms., c.l., frt. alld lb. .17¾- —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16 - —
Phenolphthalein, USP, or yellow, bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazine, NF, fib. dms., c.l., frt. adjusted lb. .53 - —
over 2,100 lbs., same basis lb. .55 - —
less than 2,100 lbs., same basis. lb. .57 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol.)
Phenylacetaldehyde, soln., 50%, bots lb. 2.40 - 2.70
100%, bots lb. 4.00 - 4.65
Phenylacetamide, 125-lb. dms., works lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
dl-Phenylalanine, dms., works lb. 27.00 - 37.50
1-Phenyl-3-carbethoxy pyrazolone-5, 250-lb. fib. dms., dlvd. E lb. 3.60 - —
smaller dms., dlvd. E lb. 4.00 - —
Phenyldiethanolamine, dms., c.l., dlvd E. lb. .40 - —
l.c.l., dlvd. E lb. .41 - —
m-Phenylenediamine, dms., frt. alld. lb. .90 - —



Fire hose

House paints



Automobile body lacquers

Where VERSATILITY is required these industries depend on

Esso

PETROLEUM SOLVENTS

More and more industries are using high quality, versatile Esso Petroleum Solvents to meet processing requirements. You will find Esso Solvents conveniently available in a wide range of evaporation rates with precise characteristics to meet *your* specific needs.

6 good reasons why you can depend on Esso Petroleum Solvents

- **UNIFORMITY** — made in modern refineries from carefully selected crude oil sources.
- **ECONOMY** — there's a storage facility near you for low shipping costs and quick delivery.
- **CONTROLLED EVAPORATION** — available in a wide range of evaporation rates with the precise characteristics to meet *your* needs.
- **SOLVENCY** — Esso aliphatics and Solvesso aromatics cover both high and low solvency ranges.
- **AVAILABILITY** — with water terminals in industrial cities, Esso Solvents are always available in bulk.
- **MODERN HANDLING METHODS** — separate tank storage, pumping lines, tank cars and trucks are used throughout all Esso Solvent handling operations.

SOLD IN: Maine, N. H., Vt., Mass., R. I., Conn., N. Y., N. J., Pa., Del., Md., D. C., Va., W. Va., N. C., S. C., Tenn., Ark., La.

ESSO STANDARD OIL COMPANY

Boston, Mass.—New York, N. Y.—Elizabeth, N. J.—Philadelphia, Pa.—Baltimore, Md.—Richmond, Va.—Charlotte, N. C.—Columbia, S. C.—Memphis, Tenn.—New Orleans, La.

p-Phenylenediamine, redistilled, dms., works lb. 2.00 - —
tech., refd., dms., same basis lb. 1.10 - 1.35
Phenylethanolamine, d m s., c.l., works lb. .69½ - —
t.c.l. same basis lb. .70 - —
Phenylethyl acetate, bots lb. 1.35 - 1.95
b-Phenylethylamine, dms., works, 1,000-lb. lots lb. 1.10 - —
smaller lots, works lb. 1.35 - 1.40
Phenylethylphenyl acetate, bots lb. 3.95 - 4.40
Phenylhydrazine base, CP, bots lb. 3.00 - 3.07
Hydrochloride commercial kgs. works lb. 1.75 - —
purified, bots., works lb 5.17 - —
1-Phenyl-3-methyl pyrazolone-5, 250-lb. lots, divd. E lb. 1.70 - —
smaller lots, divd lb. 2.00 - —
o-Phenylphenol, dms., works lb. .20 - —
p-Phenylphenol, bgs., c.l., works lb. .37½ - —
t.c.l., works lb. .42 - —
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
C.P., bots., fib. dms. lb.17.00 -17.25
tech., fib dms., works lb.10.45 - —
Phosphate, defluorinated (see under D).
Rock, Curacao, Atlantic ports, New Orleans ton.43.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70-68%, b.p.l., c.l., same basis long-ton. 5.08 - —
72-70%, b.p.l., c.l. same basis long-ton. 5.68 - —
75%-74%, b.p.l., c.l., same basis long-ton. 6.68 - —
77%-78% b.p.l., c.l. same basis long-ton. 7.68 - —
finely grd., 65%, b.p.l., basis 30%, P_2O_5, minimum, bulk, c.l., mines, short-ton. 5.60 - —
68%, b.p.l. basis 31% P_2O_5, minimum, mines, short ton. 5.80 - —
70%, b.p.l. basis 32% P_2O_5 minimum, mines, short-ton. 6.15½ - —

Plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble 50c per long ton higher

Phosphorus, amorphous, red, cs. lb. .46 - .47
dms lb. 44 - 45
yellow, cns., works lb. 48 - .50
dms., c.l., works lb. 40 - —
t.c.l., works lb. 43 - —
Oxychloride, dms., c.l., works lb. .14 - —
t.c.l., dms., works lb. .17 - —
tankcars, works lb. .12½ - —
Pentasulfide, solid, dms., c.l., works lb. .11½ - —
t.c.l., dms., works lb. .13 - .13½
Pentoxide, dms., c.l., works lb. .13½ - —
t.c.l. works lb. .16½ - —
Sesquisulfide, tins, cs., works lb. .29 - —
export, dms. lb. .31 - .36
Trichloride, dms., c.l., works lb. .14 - —
t.c.l. works lb. .17 - —
tankcars, works lb. .12½ - —
Phthalic anhydride, ogs, c.l., works, frt. equald lb. .20 - —
t.c.l., same basis lb. .21 - —
tanks, same basis lb. .19¼ - —
Phthalimide, 97%-98%, dms., works, frt. alld lb. .65 - .70
a-Picoline, ret., dms., c.l., works, frt. equald lb. .43½ - —
t.c.l., works, frt. equald lb. .44 - —
b,g-Picoline, 5°, dms., c.l., works. lb. .31 - .32½
t.c.l., works lb .32 - .33
g-Picoline, 98%, dms., c.l., works. lb. 2.65 - —
Pilocarpine hydrochloride, NF, bots oz 5.25 - —
Nitrate, USP, bots., vials oz. 4.80 - 4.90
Pimento, Jamaican, bgs lb. .61 - —
Mexican, bgs. lb. .55 - .56
Pink root, bls. lb. 3.00 - 3.25
d-Piperazine hexahydrate, French Codex, bots. kilo. 8.00 - 8.50
Piperidine, 98%, dms., frt. equald. lb. 2.90 - 3.00
Piperonyl butoxide, dms., divd. E lb. 4.50 - 5.30
Cyclonene, dms., divd. E lb. 4.20 - 4.50
Pitch, coaltar, 140°-150° F., m.p., dms., c.l., works ton.41.20 -42.09
Cottonseed, raw, dms., works lb. .02¼ - .03
Linseed dms lb. .06 Nom.
Marine, dms. lb. .04¼ - .05
Petroleum (see Asphalt, petroleum).
Soybean dms., works lb. .05 Nom.
Tall, dms., works lb. .03¾ - .04½
Plaster of Paris (see Gypsum).
Platinum metal, works oz.84.00 -87.00
Pleurisy root, bls lb. .45 - .50
Podophyllum resin, NF, dms lb. 8.75 - —
Poke root, bls lb. .19 - .22
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000-lb. lots, works lb. .43 - —
smaller lots, works lb. .46 - .48
tristearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000 lb. lots, works. lb. .43 - —
smaller lots, works lb. .46 - .48
Poppy seed, Argentine, bgs lb. .15½ - —
Dutch, bgs lb. .18¾ - .19
Polish bgs lb. .17¾ - .18
Turkish, bgs lb. .16 - .16½
Potash, caustic, regular, flake, 88-92%, dms., c.l., works. 100 lbs. 9.15 - —
t.c.l., works 100 lbs.10.20 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 4.25 - —
t.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
solid, 88-92%, dms., c.l., works 100 lbs. 8.70 - —
t.c.l., same basis, works. 100 lbs. 9.75 - —
Potassium acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd. dms lb. .24 - —
Bichromate, bgs., c.l., works lb. .15 - —
t.c.l., works lb. .15½ - —

Potassium bichromate in drums ½c. higher.

Bitartrate, NF, dom., gran. or powd., bbls., 5,000 lbs. 1 shipt lb. .32½ - —
smaller lots lb. .33 - .36
dms., c.l. lb. .32 - —
imported, kgs lb. .26 - —
Bromate, bbls., 1,000 lbs. or more. lb. .50 - .52
25-200-lb lots lb. .53 - .57
Bromide, USP gran., bbls., kgs. lb. .34 - —
Carbonate, tech., calcined, bbls., c.l., works 100 lbs. 9.00 - —
t.c.l., same basis 100 lbs.10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
t.c.l., works 100 lbs. 8.65 - —
USP, gran., bbls., dms lb. .16½ - .18
powd., bbls., dms lb. .21 - .23
Chlorate, cryst., dms., c.l., works lb. .10¼ - —
t.c.l., works lb. .11½ - .12
powd., dms., c.l., works lb. .10¾ - —
t.c.l. works lb. .12 - 12½
export, dms., New York lb. .12¾ - .13½
NF gran dms lb .31 - .33
Chloride, USP, cryst., dms lb. .21 - .23
gran. dms lb. .15 - .17
powd. dms lb .24 - .26
Chromate, tech., bgs lb. .50 - .50½
Potassium citrate, USP, gran., dms. lb. .41 - —
powder, dms lb. .40½ - .41½
Cyanide, dms., 500-lb. lots or more, works lb. .55 - —
smaller lots, works lb. .57 - —
Dichromate (see Potassium bichromate).
Ferricyanide, kgs lb. .60 - .63
Ferrocyanide, dms., ton lots lb. .22½ - —
smaller lots lb. .23 - —
kgs. lb. .28 - —
Fluoborate, fib dms., c.l., works. lb. .30 - —
t.c.l., works lb. .31 - —
Fluoride, dms., works lb. .37 - .38
Gluconate dms lb. .75 - .79
Glycerophosphate, 75% solution cbys lb 2.15 - 2.25
Guaiacolsulfonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb dms. 1 to 100-dm lots lb. .28½ - .32
Hypophosphite, NF, fib. dms., ton lots or less lb. 1.00 - 1.03
Iodide, dms. lb. 2.15 - —
Manure salt 22% K_2O bulk, mines unit-ton. .17 - —
Metabisulfite, gran., dms lb. .20 - .21
powd. dms lb. .25 - —
Muriate dom. 50-60% K_2O, bulk, Carlsbad, N. M. unit-ton. .36 - .37½
Trona, Cal. unit-ton. .44½ - —
50-51% K_2O paper bgs, f.a.s. Carlsbad, N. M ton.22.70 - —
Nitrate, cryst., bbls., 10-ton lots. 100 lbs. 14.40 - —
smaller lots 100 lbs.14.65 -14.90
gran., bbls., 20-ton lots.100 lbs. 9.75 - —
smaller lots 100 lbs.11.10 -11.50
powd., bbls., 20-ton lots. 100 lbs.10.75 - —
smaller lots 100 lbs.12.00 -12.50
Potassium nitrate, NF, gran., dms. lb. .09¾ - .11¼

Potassium nitrate in bags, 50c. per 100 lbs. less in kegs, $1 more.

Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .32
Pentaborate, gran., bgs., c.l., works ton.180.00 - —
bbls., ton lots, ex whse ton.261.00 - —
smaller lots, ex whse ton.266.00 - —

Powdered Potassium pentoborate, $10.25 per ton higher

Perchlorate, dms., c.l., works lb. .15 - —
t.c.l., works lb. .16½ - —
Permanganate, tech., dms., works lb. .22½ - .23½
USP dms. works lb. .24¾ - .30¼
Persulfate, dms., 5-ton lots, works, lb. .21½ - —
1-ton lots, works lb. .23½ - —
Phosphate, tetrabasic, bbls., works lb. .16½ - .18½
Prussiate, red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass, bgs., c.l., works. 100 lbs.17.00 - —
t.c.l. 100 lbs.17.80 - —
soln., clarified, 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
t.c.l., 5 dms., or more, works 100 lbs 6.55 - —
tanks, works 100 lbs. 5.45 - —
tech., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.35 - —
t.c.l., 5 dms. or more, works 100 lbs. 6.50 - —
tanks, works 100 lbs. 5.00 - —
Potassium silicate, soln., tech., 40.5° Be., 1:2.0, dms., c.l., works 100 lbs. 6.45 - —
t.c.l., 5 dms. or more, works 100 lbs. 7.20 7.60
tanks, works 100 lbs. 6.10 - —
Silicofluoride, bbls., works lb. .09 - .10
Stannate, dms., frt. alld. E lb. .682 - .748
Sulfate, agricultural, 49-51%. K_2O, bulk, works ton.32.00 - —
NF, cryst dms lb 31 - 33
gran dms lb 18½ - —
powder dms lb. .16½ - 17
Sulfocyanide, NF, cryst., (see Potassium thiocyanate)
Thiocyanate, NF, cryst., dms lb. .84 - .94
tech., works lb 77 - 79
Titanate, ctrs., c.l., works lb. .14 - —
5-ton lots, works lb. .14½ - —
1-ton lot or less, works lb. .14¾ - —
Potassium-magnesium sulfate, bulk, works basis 40% K_2SO_4, 18% MgO ton.13.75 - —
Potassium-sodium tartrate, NF, gran., powd., dms., c.l. lb. .32½ - —
5,000-lb. lots lb. .33 - —
smaller lots lb. .33½ - .33¾
Potassium-titanium fluoride, fib. dms. works lb. .39 - 40
Potassium-zirconium fluoride fib. dms. c.l. works lb. .50 - —
t.c.l., works lb. .52½ - 55
Pregnenolone, bots gram. .60 - —
Acetate, bots gram. .55 - —
Progesterone, USP, bots., 100-gr. lots gram. .65 - —
Acetate, bots gram. .70 - —
Procaine hydrochloride USP, dms. frt. alld lb 3.10 - 3.40

"don't they know..."

"WHEN IT SMELLS BETTER—IT WILL SELL BETTER!"

THAT applies to your product whether it be... PAINT • TEXTILES • WAXES • PAPER & BOARD • LAUNDRY STARCH • PRINTING INKS • DISINFECTANTS • FEATHERS • FUR • PLASTICS • COTTON BATTING • CLEANING FLUIDS & NAPHTHAS • LUBRICATING OIL & GREASE • LINOLEUM • LATEX • LEATHER • VARNISHES & LACQUERS • TEXTILE FINISHING OILS • INSECTICIDES • RUBBER GLUES • PASTES • CUTTING OILS and many others

Felton chemists, with a wealth of research and experience in Industrial Aromatics and Deodorizing Agents, can supply you with the perfect reodorants or neutralizers for your products. All you have to do is *send us a sample of what you make*—so that we can make careful, individualized study of your requirements.

AROMATIC CHEMICALS • DEODORIZING CHEMICALS • PERFUME OILS • ESSENTIAL OILS

FELTON CHEMICAL COMPANY, INC.
599 Johnson Ave., Brooklyn 6, N. Y.
BRANCHES IN • BOSTON • PHILADELPHIA • LOS ANGELES • ST. LOUIS • DALLAS • CHICAGO • MONTREAL • TORONTO

Propane—Sanguinarine Nitrate

Propane, commercial grade tanks, group 3	gal.	.03	—
n-Propyl acetate, dms., c.l., dlvd	lb.	.12¾-	—
l.c.l., dlvd	lb.	.13¾-	—
tanks, dlvd	lb.	.1075-	—
Propyl gallate, dms., 100 to 2,000-lb. lots, works	lb	3.90	4.40
p-Hydroxybenzoate, USP, dms	lb.	2.30	2.40
Thiouracil, bots., 50-kilo lots or more	kilo.	55.00	—
smaller lots	kilo.	55.10	55.30
Propylene dichloride, dms., c.l., dlvd E	lb.	.0845-	.095
l.c.l. same basis	lb.	.0950-	.1050
Glycol, industrial, dms., c.l., dlvd. E	lb.	.13¼-	—
l.c.l., same basis	lb.	.14¼-	—
tanks, same basis	lb.	.11½-	—
USP, dms., c.l., dlvd. E	lb.	.15¼-	—
l.c.l., same basis	lb.	.16¼-	—
tanks, same basis	lb.	.13½-	—
Methyl ether, dms., c.l., dlvd. E	lb.	.20	—
l.c.l., same basis	lb.	.21	—
tanks, same basis	lb.	.18½-	—
Oxide, dms., c.l., dlvd. E	lb.	.15½-	—
l.c.l., dlvd. E	lb.	.16½-	—
tanks, dlvd. E	lb.	.13½-	—
Psyllium seed, black, bgs	lb.	.80	—
Blonde, bgs.	lb.	.18	.20
husks, bgs.	lb.	.45	.50
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots	lb.	.03¾-	.04¼
smaller lots	lb.	.03⅝-	.04⅛
Imported, Italian, silk-screen, coarse, bgs., ton lots	lb.	.06½-	—
fine, bgs. ton lots	lb.	.04	—
sun dried, coarse, bgs ton lots	lb.	.02½-	.04
fine, bgs., ton lots	lb.	.02½-	.04
Pumice in bbls. is ½c. per lb. higher.			
Pumpkin seed, bgs	lb.	.25	.26
Pyrethrin, synthetic (see Allethrin).			
Pyrethrum flowers, fine grd. 0.9% pyrethrins bbls. works	lb.	.50	—
powder, 1.3% pyrethrins, bbls., works	lb.	.71½-	—
liquid (20 to 1) basis 2 grams pyrethrins per 100cc. odorless base, 50 dms., works	gal.	8.35	—
1-4 dms., works	gal.	8.55	—
Oleoresin, dewaxed, 20%, dms., works	lb.	9.80	-10.15
purified, 20%, dms., works	lb.	10.00	-10.10
Pyridine, denaturing, dms., c.l., works and frt. equald	gal.	2.77	—
l.c.l., same basis	gal.	2.80	—
refd., 2°, non-ret. dms., l.c.l., same basis	lb.	.95	—
Pyridoxine hydrochloride, bots., 100-gram lots	gram.	.55	—
Pyrites, Canadian, works long-ton		3.00	3.00
Pyrocatechol (see Catechol).			
Pyrogallol, NF	lb.	3.25	3.43
Pyroxylin, scrap, ungrd., amber, dms., works	lb.	.20	—
black, dms., works	lb.	.12	—
mixed, mottled, dms., works	lb.	.13	—
shavings, amber, cs., works	lb.	No stocks.	
mixed colors, dms., works	lb.	.11	—
white, china, ivory, dms., works	lb.	.16	—
dense, opaque, dms., works	lb.	.12	.15
Pyroxylin, scrap, shavings, translucent pastels, cs., works	lb.	.14	—
transparent colorless, dms., works	lb.	.25	—
colors, dms., works	lb.	.15	—
USP, bots	lb.	9.50	—

Q

Quassia chips	lb.	.17	—
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l.,	lb.	.16¼-	.16¾
liquid, 35% tannin, bbls., tanks, works	lb.	.06¼-	—
solid, 64% tannin, bgs., c.l., exdock, duty extra	lb.	.12½-	—
ordinary, 63% tannin, bgs., c.l. same basis	lb.	.11 31/64	—
Quercitron extract, crystals, No. 1, bbls., l.c.l.	lb.	.40	—
liquid, No. 1, bbls., l.c.l.	lb.	.19	—
Quicksilver (see Mercury metal).			
Quince seed, bgs	lb.	2.00	Nom.
Quinidine, NF, V cryst., cns., 100-oz. lots	oz.	1.15	—
powd., precip., cns., 100-oz. lots	oz.	1.17	—
Sulfate, USP, cns., 100-oz. lots	oz.	.87	—
Quinine, NF, cns., 100-oz. lots	oz.	.54	—
Bisulfate, USP, cns., 100-oz. lots	oz.	.37½-	—
Dihydrochloride, USP cns	oz.	.54	—
Ethylcarbonate, NF, cns., 100-oz. lots	oz.	.63½-	—
Hydrobromide, NF, cns., 50-oz. cns.	oz.	.47½-	—
Quinine, hydrochloride, USP, cns., 100-oz. lots	oz.	.47½-	—
Phosphate, NF, cns., 100-oz. lots	oz.	.61	—
Salicylate NF, cns., 100-oz. lots	oz.	.55	—
Sulfate, USP, cns., 100-oz. lots	oz.	.42	—
Quinine and Urea hydrochloride, NF, cns	oz.	.56	—
Quinolin, dms., c.l., frt. equald	lb.	.50¾-	—
l.c.l., same basis	lb.	.51¼-	—
tanks, same basis	lb.	.50	—

R

R salt, paste, 100% basis, dms., frt. alld	lb.	.83	—
powd., basis 100%, frt. alld	lb.	.88	.93
Red, BON acid maroons, pure, bbls.	lb.	1.75	—
resinated, bbls	lb.	1.50	—
arylid, deep shades, bbls	lb.	3.60	—
light shades, bbls	lb.	2.75	—
maroon, bbls	lb.	3.60	5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies	lb.	4.30	—
light shade same basis	lb.	4.00	—
medium shade, bbls. same basis	lb.	4.25	—
medium-light shade, bbls. same basis	lb.	4.05	—
orange shade, bbls. same basis	lb.	3.95	—
lithopone, deep shade, bbls., same basis	lb.	1.93	—
light shade, bbls. same basis	lb.	1.70	—
maroon shade, bbls. same basis	lb.	2.05	—
medium shade, bbls. same basis	lb.	1.85	—
medium-light shade, bbls., orange-red shade, bbls, same basis	lb.	1.64	—

Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c per lb higher ex whse. Los Angeles and San Francisco

Carmine No. 40 (see Carmine).
Dyes (see Dyes, coaltar).

same basis	lb.	1.77	—
Eosin toner, bbls., works	lb.	1.60	—
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N Y	lb.	.12¾-	—
Iron oxide, natural, 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., East St. Louis	lb.	.06	—
synthetic, 98% ferric oxide, bgs., c.l., works	lb.	.12¾-	—
l.c.l., works	lb.	.13	—
Lake C toner, alizarin, bbls., works	lb.	1.10	1.30
Lithol, toner, bbls., works	lb.	.79	—
rubine, toner, pure, bbls., works	lb.	1.50	—
resinated, bbls., works	lb.	1.40	—
Virginia-type, bbls., works	lb.	1.40	—
Maroon toner, MNPT, kgs., works.	lb.	3.60	—
10,000-lb. lots, works	lb.	4.22	—
smaller lots, works	lb.	4.24	—
Metallic, bbls., c.l., works	lb.	.02½-	—
l.c.l. works	lb.	.02¾-	—

Oxide (see Red iron oxide).

Persian gulf, bgs. c.l., works	lb.	.06¾-	—
l.c.l., works	lb.	.07	—
Para toner, bbls	lb.	.95	—
Chlorinated kgs	lb	1.10	1.15

Phloxin toner (see Red eosin toner).

Rhodamine, molybdated, PMA, kegs	lb.	5.35	—
tungstated, PTMA, works, kegs.	lb.	5.95	—
Spanish, oxide, bbls., c.l., ex dock	lb.	.05¾-	—
l.c.l., ex dock	lb.	.06	—
ex whse., New York	lb.	.06½-	—
Toluidine toner, deep shades, kgs., works	lb.	1.50	—
light shades, kgs., works	lb.	1.50	—
Turkey, bbls., works	lb.	.60	—
Tuscan, bbls., frt. equald	lb.	.24½-	.25
Venetian, 15%, bgs., works	lb.	.0350-	.037
20%, bgs., works	lb.	.0475-	—
25%, bgs., works	lb.	.0525-	—
30%, bgs., works	lb.	.0550-	—
35%, bgs., works	lb.	.0575-	—
40%, bgs., works	lb.	.0625-	—
Watchung-type, bbls.	lb	1.95	—

Red KB base (see 4-Chloro-2-aminotoluene).
Red, precipitate (see Mercuric oxide, red).

Red saunders, NF, powd., bbls	lb.	.35	.40
Rennin, NF, powder	lb.	5.25	—
Resorcinol, tech. grade, dms., c.l., works	lb.	.77½-	—
l.c.l., works	lb.	.78½-	—
USP, cryst., dms., works	lb.	2.75	—
powd., dms., works	lb	2.95	—
Monoacetate, NF, dms	lb.	3.00	3.25
Rhatany root, bgs	lb.	.15	.16
Rhodinol, 5-lb. cans	lb.	25.50	-56.00
Rhubarb root, China, whole, cs	lb.	.75	.85
powd., bbls.	lb.	.90	.95
India, whole, bgs	lb.	.35	.40
powdered, bbls.	lb.	.43	.45
Riboflavin USP bots., dlvd	kilo	100.00	—
readily soluble, bots., dlvd	kilo.	130.00	—
5'-phosphate-sodium, 100-gram lots or more	kilo.	140.00	—

Rochelle salt (see Potassium-sodium tartrate).
Rosin, gum and wood (see Naval Stores, Protective Coatings market).

Rotenone, CP, bbls., works	lb.	20.00	—
tech., bbls., works	lb.	16.50	—
Rottenstone, bgs., 5-ton lots, exwhse	lb.	.03	—
ton lots, same basis	lb.	.04	—
Rutin, NF, fib. dms., 25-kilo lots.	kilo.	19.50	-25.00
10 to 25-kilo lots	kilo.	19.50	-25.00
1 to 10-kilo lots	kilo.	20.00	-25.00
Ryania, 100%, powd., bgs., c.l., works.	lb.	.22	—
l.c.l., same basis	lb.	.24	—

S

Sabadilla seed, powd., bbls	lb.	.49	.49½
activated, ground with lime, bbls	lb.	.30	.32
Saccharin, USP, gran., soluble, dms., 1000-lb. lots	lb.	1.60	—
smaller lots	lb.	1.70	1.80
powd., soluble, insoluble, dms., 1000-lb. lots	lb	1.65	—
smaller lots	lb	1.75	1.95
Saffron, Spanish, USP, tins	lb.	25.00	—
Safrol, dms.	lb.	1.15	1.50
Sage, Cretan, bgs	lb.	.11½-	—
Dalmatian, bgs	lb.	.38	.38
Italian, bgs	lb.	.14	.14½
Sago flour, raw, bgs	lb.	.06¾-	.07
refined, bgs	lb.	.08½-	.09

Sal soda (see Soda sal).

Salol, NF, gran., bbls., kgs	lb.	1.10	—
Powdered salol, 25c. higher			
Salt, rock, paper bgs., c.l. 100 lbs.		.98	—
Table, vacuum, common, fine, paper bgs., c.l 100 lbs.		1.13	—
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis	ton	22.00	—

Saltpeter (see Potassium nitrate).

Sandalwood, East Indies, chips, bgs.	lb.	.65	.66
powd., dms	lb.	.75	.76
Sanguinarine nitrate, bots	oz.	4.75	5.50

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Santonin, NF, dom. cryst., powd., cns., dms. lb. 76.50 - 80.00
imported, cryst., powd., cns lb. 76.50 - 80.00
Sarsaparilla root, dom. bls lb. .45 - .50
imported, Honduras, bls. lb. .45 - Nom.
Mexican, bls. lb. .35 - Nom.
Sassafras root bark, ord., bls. lb. .50 - .55
select, bls. lb. .65 - .67
Schaeffer's salt, paste, dms., frt. alld., 100% basis lb. .85 - .95
powder, bgs., frt. alld lb. .93 - —
Scopolamine hydrobromide, USP, bots oz. 12.25 - 13.50
Seidlitz mixture, bbls., 5,000-lb. lots lb. .30½ - —
smaller lots lb. .31 - .32
Selenium, powd., dms., dlvd. lb. 5.00 - 6.00
Senega root, bls. lb. 1.80 - 1.85
Senna leaves, Alex., whole and half, bls lb. .19 - —
siftings lb. .17 - —
Tinnevelly, No. 1, bls. lb. .16 - .18
No. 2, bls. lb. .13 - .15
No. 3, bls. lb. .11 - .13
powdered, bbls., bxs. lb. .18 - —
pods, bls. lb. .14 - —
Serpentaria root, bls lb. 4.85 - 5.00
Sesame seed Nicaragua hulled, ship't, bgs. lb. .27½ - .28
natural, bgs. lb. .17½ - .18
Salvadorian, natural lb. .18 - .18½
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .50 - —
bbls., 1,500-lb. lots lb. .51 - —
kgs., 1,500-lb. lots lb. .53 - —
refined, bgs., 1,500-lb. lots lb. .60 - —
bbls., 1,500-lb. lots lb. .61 - —
kgs., 1,500-lb. lots lb. .63 - —

Bonedry shellac prices for less than 1,500-lb lots, 1c per lb higher for all packages.

Lemon, No. 1, bgs., 10-bg. lots lb. .49½ - .50¼
No. 2, bgs., 10-bg. lots lb. .47½ - .48
Superfine, bgs., 10-bg. lots lb. .45½ - .46
TN, bgs., 10-bg. lots lb. .44½ - .45

Shellac in 1 to 9 bg. lots, 1c more

Shingle stain oil (see Oil, shingle stain).
Silica, amorph., dry grd., 325 mesh bgs., c.l., works ton 25.00 - —
l.c.l., works ton 30.00 - 40.00
hard-quartz, 99½, 325 mesh, bgs., c.l., works ton 20.00 - —
l.c.l., works ton 25.00 - 30.00
140 mesh, bgs., c.l., works ton 15.00 - —
l.c.l., works ton 20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
l.c.l., works lb. .20 - .28½
Silver bullion, ingots, ea lb. .25¼ - —
Cyanide 6b dms., 2,500-oz. lots oz. .77⅜ - —
1,000-oz. lots oz. .77⅝ - —
500-oz. lots oz. .77⅞ - —
100-oz. lots oz. .78⅛ - —
Nitrate, CP, crystals, bots., 2,500-oz. lots oz. .54¾ - —
1,000-oz. lots oz. .55 - —
500-oz. lots oz. .56½ - —
250-oz. lots oz. .57 - —

USP granular silver nitrate 4c per oz higher

Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 - —
Soapbark, whole, bls. lb. .28 - .30
crushed, bls., bbls. lb. .32 - .33
powd., bbls lb. .35 - .37
Soda ash, dense, 58% paper bgs., c.l., works 100 lbs. 1.75 - —
l.c.l., stock points 100 lbs. 2.85 - 4.62
bbls., c.l., works 100 lbs. 2.30 - —
l.c.l., stock points 100 lbs. 3.35 - 4.12
bulk, c.l., works 100 lbs. 1.45 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.65 - —
l.c.l. stock points 100 lbs. 2.75 - 4.52
bbls., c.l., works 100 lbs. 2.20 - —
l.c.l. stock points 100 lbs. 3.25 - 5.02
bulk, c.l., works 100 lbs. 1.35 - —
Soda, caustic, flake, powd., 76%, dms., c.l., works, frt. equalid. 100 lbs. 4.10 - 4.25
l.c.l., stock points 100 lbs. 5.30 - 5.45
liquid, 50%, sellers' tanks, works, dry basis 100 lbs. 2.55 - 2.70
rayon-type tanks works, dry basis 100 lbs. 2.65 - 2.80
70%, sellers' tanks, works, dry basis 100 lbs. 2.65 - 2.80
rayon type tanks, works, dry basis 100 lbs. 2.75 - 2.90
solid, 76%, dms., c.l., works, 100 lbs. 3.70 - 3.85
l.c.l., stock points 100 lbs. 4.50 - 5.05
Sal, bgs, c.l., works 100 lbs 1.40 - —
l.c.l. works 100 lbs. 1.70 - —
Sodium acetate anhyd, bgs., c.l., works lb. .12 - —
dms., l.c.l., works lb. .12¾ - —
NF, gran., dms., works lb. .18½ - .19
Alginate, NF, white powd., dms., ton lots, works lb. .87 - 1.30
refined, bbls., works lb. .83 - —
p-Aminobenzoate, dms., 1,000 lb. lots or more lb. 2.40 - —
smaller lots lb. 2.45 - 2.50
p-Aminosalicylate, dms., 1,000-lb. lots or more, frt. adjusted. lb. 3.75 - —
smaller lots, same basis lb. 3.80 - 4.25
Antimoniate, bbls., c.l., dlvd. E lb. .26½ - —
l.c.l., dlvd. E lb. .28 - —
Arsenate, dms., c.l., works lb. .12½ - —
l.c.l. dms. works lb. .13¾ - .14¼
Arsenite, dms., c.l., works lb. .13½ - —
l.c.l., dms works lb. .14¼ - .15¼
solution, dms. works gal. 70 - 1.10
Ascorbate, dms., 25-50 kilo lots kilo. 21.00 - —
10-kilo lots kilo. 21.35 - —
5-kilo lots kilo. 21.75 - —
1-kilo lots kilo 22.00 - —
bots., 500-gram lots kilo. 22.50 - —
Benzoate, tech., bbls., dms., 100-lb. lots or more lb. .39 - —
USP, bbls., dms. 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.70 - —
l.c.l., works 100 lbs. 3.70 - —
powd., bgs., c.l., works 100 lbs. 2.30 - —
l.c.l., works 100 lbs. 3.30 - —
Bichromate, bgs., c.l., works lb. .11½ - —
l.c.l., works lb. .12 - .13¼
Bifluoride, bbls., c.l., works, frt. equald lb. .17½ - —
l.c.l., same basis lb. .1790 - —
Bisulfate, bulk, c.l., works, 100 lbs. 2.00 - —
dms., c.l., works 100 lbs. 2.65 - 3.85
l.c.l., works 100 lbs. 3.05 - 3.65
Bisulfite, anhyd., bgs., c.l., works, 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 4.90 - —
soln., 35°, bbls., c.l., works, 100 lbs 1.40 - —
l.c.l., works 100 lbs 1.85 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .34 - .35
Cacodylate, NF, dms., jars lb. 6.25 - 6.50
Carbonate, anhydrous (see Soda ash)
crystalline decahydrated (see Soda ash)
monohydrated bgs., c.l., works 100 lbs 2.90 - —
l.c.l., works 100lbs. 3.30 - —

Sodium carboxymethyl cellulose (see CMC).
Chlorate, cryst., dms., c.l., works lb. .08¾ - —
l.c.l., works lb. .10¼ - .11
Chloride, tech. (see Salt).
USP, dms. lb. .05 - .12
Chlorite, tech. dms., works lb. .58 - .73
Chloroacetate, tech., dms., c.l., works lb. .54 - —
l.c.l., works lb. .25 - .28
Chromate, dms., c.l., works lb. .13¼ - —
l.c.l., same basis lb. .13¾ - .15
Citrate, anhyd., dms lb. .60 - .65
NF VIII, gran., dms lb. .26 - .30½
USP XIV gran., dms. lb. .29½ - .34

Sodium citrate USP powd. prices ½c higher.

Cyanate, dms., 1,000-lb. lots, works lb. .85 - 1.10
smaller lots, works lb. 1.00 - 1.25
Cyanide flake, 96-98%, dms., c.l. or 20,000-lb. lots lb. .178 - —
over 1,000-lb. lots lb. .188 - —
100-lb. to 1,000-lb. lots lb. .198 - —

Granular sodium cyanide 1c higher.

Diacetate, 33-35% acidity, 250-lb. dms., works lb. .14 - —
l.c.l., works lb. .14¾ - —
anhydrous dms. c.l., works lb .17 - —
l.c.l., works lb. .17¾ - —
Dichromate (see Sodium bichromate).
Ferrocyanide, bgs., 10 ton lots lb. .13½ - —
smaller lots lb. .14 - —
Fluoride, white, 97%, bbls., c.l., works lb. .1250 - —
l.c.l., works lb. .1290 - —
Formate, bgs., c.l., dlvd. E 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
Gentisate, 100-lb fib dms. lb 8.50 - —
Gluconate, refined, dms. lb. .80 - .83
tech., dms lb. .35 - —
Glutamate, mono-, dms., c.l. lb. 1.55 - —

Sodium glycerophosphate, NF, cryst., bbls lb. 2.10 - 2.25
powder, bbls. lb. 2.15 - 2.30
solution, 75%, cbys. lb 1.45 - 1.60
Hydride, dms., works lb. 1.80 - 3.00
Hydrosulfide (see Sodium sulfhydrate).
Hydrosulfite, dms., c.l., frt. alld. lb. .23 - —
alld lb. .23 - —
l.c.l., frt. alld. lb. .23½ - —
Hydroxide, tech. see Soda caustic).
NF, pellets, 100-lb. dms., 1 to 100-dm. lots lb. .18½ - .23
Hypophosphite, NF, dms., ton-lots, or less lb. .95 - .98
Hyposulfite, NF (see Sodium thiosulfate).
pea crystals, bgs 100 lbs. 4.50 - —
gran., bgs., c.l., works 100 lbs. 4.75 - 5.00
photo grade, bgs., c.l., works, 100 lbs. 4.50 - 4.75
l.c.l., works 100 lbs. 5.00 - 5.05
technical, bgs., works 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 4.90 - 6.90
Sodium hyposulfite crystals in bbls., 50c. higher.
Iodide, USP, bots., dms lb. 2.80 2.92
Lactate, edible, 50%, dms., cbys., works lb. .21½ - —
60% dms cbys. works lb. .26½ - —
tech., 50% dms., cbys. works, lb. 16¼ - —
Lauryl sulfate, dms., c.l., dlvd lb. .22 - —
l.c.l., dlvd. lb. .23 - —
tanks, dlvd. lb. .20 - —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, gran., bgs., c.l., works ton. 78.50 - —
l.c.l., ex wise ton. 124.50 - 129.50

Sodium metaborate, octanydrate in bbls., $24.50 per ton higher.

Santonin—Sodium Para-aminosalicylate

Sodium metaborate tetrahydrate, c.l., bbls., works ton. 199.50 - —
Metallic, bricks, bbls., works lb. .17 - .19
tanks, works lb. .16 - —
Metanilate, bbls., frt. alld lb. .62 - —
Metasilicate, anhyd. ogs., c.l., works 100 lbs. 4.85 - —
l.c.l., works 100 lbs. 5.20 - 7.10
dms., c.l 100 lbs. 5.25 - —
l.c.l. 100 lbs. 5.60 - 6.00
Pentahydrate, bgs., c.l., works, 100 lbs. 4.00 - —
l.c.l., works 100 lbs. 4.75 - 4.75
dms., c.l., works 100 lbs. 4.40 - —
l.c.l., works 100 lbs. 4.75 - 5.15
Molybdate, bbls., cbys., works lb. .75 - .85
anhyd., powd., dms., works lb. .85 - .92
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works ton. 47.00 - —
bulk, c.l., works ton 43.50 - —
imp., 100-lb. bgs., c.l., Atl Gulf, Pac., whse ton. 53.00 - —
bulk, c.l., same basis ton. 49.50 - —
Nitrite, USP, bbls., c.l., works, frt equald lb. .0775 - —
l.c.l., same basis lb. .0925 - —
Orthosilicate, conc. dms., c.l., works 100 lbs. 6.00 - —
l.c.l., works 100 lbs. 6.35 - 6.75
hydrated flake bbls. c.l. works 100 lbs. 5.25 - —
l.c.l., dlvd. 100 lbs. 7.00 - —
Oxalate, 88%, bgs., works 100 lbs. 10.85 - —
Para-aminobenzoate (see Sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Aminosalicylate).

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Ortho-dichlorobenzene • Caustic Soda

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Company_____
Title_____
Address_____
City_____ Zone____ State_____ BC-6

Sodium Pentachlorophenate—Sucrose Octa-acetate

Sodium pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .25½ - —
t.c.l., same basis lb. 26½ .28½
pellets, bgs., c.l., same basis lb. .25 - —
t.c.l., same basis lb. 26 .28
powdered, bgs., c.l., same basis, lb. .24 - —
t.c.l. same basis lb. .25 - .27

Pentachlorophenate, 20,000 lbs. min. truckloads, ¼c. per lb. over carlot prices.

Perborate, USP, tech., bbls., c.l., works lb. .193 - —
t.c.l. works lb. 198 —
Peroxide, dms., c.l., dlvd. E. of Miss lb. .1800 - —
t.c.l., same basis lb 1910 .2010
Phenolsulfonate, USP IX, gran., dms lb. .44 - .45
powd., dms lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l. frt., equald 100 lbs 7.45 - —
t.c.l., works 100 lbs 7.85 - —
USP, dried powd., bgs., dms., works lb 19 .20½
duohydrate, bgs., c.l., frt equald 100 lbs 7.05 - —
t.c.l., frt. equald 100 lbs 7.25 - —
monobasic, anhyd., bgs., c.l., frt. equald 100 lbs. 8.45 - —
t.c.l., frt. equald 100 lbs 8.90 - —
tribasic, cryst., bgs., c.l., frt. equald 100 lbs. 4.20 - —
t.c.l., frt. equald 100 lbs 4.60 - —

Sodium phosphates in dms. 60c higher than bgs.

Sodium prussiate, yellow (see Sodium ferrocyanide).
Pyrophosphate acid, bgs., c.l., works, frt. equald 100 lbs. 10.75 - —
ferric, dms., 1,500-lb. lots, works, lb. .31 - —
smaller lots, works lb. .33 - —
tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 7.90 - —
t.c.l., frt equald 100 lbs 8.10 - —
Salicylate, USP, dms lb. .68 - —
Sesquicarbonate, bgs., c.l., works, 100 lbs. 2.10 - —
t.c.l., dlvd., zone 1 100 lbs. 3.85 - 4.10
zone 2 100 lbs. 4.10 - 4.35
zone 3 100 lbs 4.40 4.65
zone 4 100 lbs 5.10 5.35

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones: Davenport, Ia. and St. Louis; (2) Ark. E of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 98°, Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Sesquisilicate, hydrated, bgs., c.l., works 100 lbs. 4.50 - —
t.c.l., works 100 lbs. 4.85 - 6.75
dms., c.l., works 100 lbs. 4.90 - —
t.c.l., works 100 lbs. 5.25 - 5.65

Sodium silicate, liq., 40° 1:2:3, turbid, dms., c.l., works, 100 lbs. 1.35 - —
t.c.l., works 100 lbs. 1.70 - 2.30
tanks, works 100 lbs. 1.00 - —
47°, turbid, 1:2.9, dms., c.l., works 100 lbs. 1.95 - —
t.c.l., dms., works, 100 lbs. 2.55 - 2.80
tanks, works 100 lbs. 1.60 - —
52°, turbid, 1-2-3, dms., c.l., works 100 lbs. 2.30 - —
t.c.l., works 100 lbs. 2.65 - 3.05
tanks, works 100 lbs. 1.95 - —
solid, 1:3.2, bgs works ton 57.50 - —
Silicofluoride, bgs., c.l., works lb. .07 - —
t.c.l., works lb. .07 - .08
Sodium silicofluoride in dms., 4/10c. higher
Stannate dms., works, frt. alld. E lb. .548 - .602
Sulfa drugs (see Sulfa name).
Sulfanilate, bbls., works lb. .22 - —
Sulfate, NF, VII, dried, powd., dms lb. .22½ - —
tech., anhyd., bgs., c.l., dlvd., east 100 lbs. 2.50 - —
rayon grade, bgs., c.l., works, ton 29.00 - —
t.c.l., works ton 35.00 - —
USP, cryst. fib dms lb. .17½ .18
gran. fib. dms lb. .17½ .18
Sulfide, flake, dms., c.l., works, E., frt. equald lb. .05¼ - —
t.c.l., same basis lb. .05¼ - —
fused, bbls., c.l., works, E., frt. equald lb. .04¾ - —
t.c.l., same basis lb. .05¼ - —
Sulfite, anhyd., bgs., c.l., works, 100 lbs. 3.00 - —
t.c.l. same basis 100 lbs 3.50 - —
powder, bbls., c.l., works 100 lbs 7.25 - —
t.c.l., works 100 lbs. 7.50 - —

Sodium sulfocyanide, CP, (see Sodium thiocyanate).
Sulfhydrate, flake, 70-72%, dms., c.l., works lb. .06½ - —
t.c.l., works lb. .07 - —
liquid, 40-44%, tanks, works, 100% basis ton. 110.00 - —
Tetraborate (see Borax).
Tetrasulfide, liq., 40%, dms., c.l., works lb. .03½ - —
t.c.l., works lb. .04 —
Thiocyanate, CP, dms. lb. .55 - .65
tech., dms., works lb. .377 - —
Thiosulfate, NF, cryst., bbls lb. .12½ - —
tech. (see Sodium hyposulphite).
Titanate ctns. c.l. works lb. .10½ - —
5-ton lots, works lb. .10¾ - —
1 ton or less, works lb. .11 - —
Trichloroacetate, 99% 100-lb. dms., c.l., frt. alld. E lb. .37½ - —
t.c.l. frt. adjusted. E lb. .39½ - —
50-lb dms., c.l., frt. alld. E. lb. .38 - —
t.c.l., frt. adjusted, E lb. .40 - —
10-lb. ctns., c.l., frt. alld. E. lb. .44 - —
t.c.l., frt. adjusted, E lb. .46 —
Prices on Sodium trichloroacetate West of the Rockies are 1¾c. per pound higher.
Tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 8.05 - 8.25
t.c.l., same basis 100 lbs. 8.30 - 8.45
Trisilicate, powd., 1:32.2, bgs., c.l., works 100 lbs. 8.65 - —
t.c.l., works 100 lbs. 9.40 -12.80
dms., c.l., works 100 lbs. 9.05 - —
t.c.l., works 100 lbs. 9.80 -1025
Tungstate, tech., kgs., dlvd. E lb. 1.80 - —
Sodium ammonium phosphate, bbls., works, frt. equald lb .23 - —
Sodium-carboxymethyl cellulose (see CMC).
Sodium cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. .22 - —
t.c.l., same basis lb. .22½ - —
Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works lb. .28 - —
smaller lots, same basis lb. .30 - —
Solvent naphtha, coaltar, refined, tanks, works gal. .31 - .32
high flash, tanks, works gal. .31 - .32
petroleum (see Petroleum solvent, partial aromatic).
Sorbitan monostearate, fib, dms., 20,000-lb. lots, works lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots, works lb. .37 - .39
Tristearate, fib, dms., 20,000-lb. lots, works lb. .33 - —
10,000 to 20,000-lb. lots, works, lb. .35 - —
smaller lots, works lb .38 - .40
Sorbitol, cryst., pellets, dms., c.l., works lb. .30 - —
1 to 5-ton lots, works lb. .32 - .33
powd., dms., 1 to 5-ton lots, works lb .38 - .39
solution commercial, aqueous, dms., c.l., works lb. .24½ - —
ton lots works lb. .25 - —
smaller lots, works lb. .25¼ - —
tanks, works lb .23¼ - —
regular, 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots works lb. .16¾ - —
smaller lots, works lb. .17 - —
tanks, works lb. .15 - —
Soybean meal, 44% bulk, Decatur ton. 92.00 -93.00
protein, chemically isolated, 40,000 to 60,000-lb. lots, dlvd. lb. .25 - —
20,000 to 40,000-lb. lots, same basis lb. .25¼ - —
100 to 20,000-lb. lots, same basis lb. .25½ - —
mechanically refined, bgs., 40,000-lb. lots, same basis lb. .0605 - —
20,000-lb. lots, same basis, lb. .0620 - —
smaller lots, same basis, lb. .0635 - —
Sparteine sulfate, cns. oz. .85 - .95
Spearmint leaves, dom., bls lb. .75 - —
imported, bls lb. 1.25 - —
Spruce extract liq. reg., tanks, works lb. .01¾ - —
powd., super, bgs., c.l., works, lb. .05¼ - —
t.c.l., works lb. .05½ - —
Squill, red, fortified, powd., bbls., boxes lb. 1.60 - —
white, bls. lb. .12 - .15
powd., bbls., bxs lb. .18 - .21
St. John's bread, edible, bls lb. .13 - .15
Stannic chloride, anhyd., dms., works lb. .762 - .772
Oxide, dms., dlvd. E lb. .97 - .98
Stannous chloride, anhyd., dms., works lb. .817 - 1.086
Hydrous (crystals), dms., works, lb. .85 - .89
Sulfate, dms., works lb. .935 - .975
Starch, corn, pearl, paper bgs., c.l., 100 lbs. 7.14 - —
t.c.l. 100 lbs. 7.29 - —
powd., paper bgs., c.l 100 lbs 7.26 - —
t.c.l. 100 lbs. 7.41 - —
Prices for corn starch in cotton bags 25c per 100 lbs higher.
Potato, dom., Idaho, bgs., c.l., works lb. .063 - —
Maine, bgs., c.l., works lb. .07 Nom.
t.c.l., spot lb. .08¾ - .09¼
Rice, t.c.l., bgs lb. .14 - .15
Wheat bgs lb. .0755 - .0780
Star root (see Helonias root).
Stargrass Root (see Aletris root).
Staveacre seed bgs lb. .60 - .61
Stearine oleo (see Oleostearine.)
Stomach substance, not USP, fib. dms lb. 2.95 - 3.10
Stramonium leaves, bgs lb. .18 - .20
Streptomycin hydrochloride, bulk, gram. .17 - —
Sulfate, bulk gram. .17 - —
Strontium bromide, NF, cns., dms. lb. .77 - .78
Carbonate, pure, dms., 5-ton lots or more, works lb. .35 - —
1-ton lots, works lb. .37 - —
tech., dms., works lb. .19 - —
Chromate, bbls., works lb. .46 - —
Iodide, jars, 25-lb. lots lb. 3.42 - —
Nitrate, bbls., cs., works lb .11 - .13
Salicylate NF dms lb 1.65 - —
Sulfate, air floated, 90% 325 mesh bgs., works ton 56.70 -66.15
Strophanthin, K, bots oz. 25.00 -25.50
G, (see Ouabaine, USP).
Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 - 3.75
Styrax, USP, cs lb. .78 - .80
Strychnine, NF, powd., cns., 100-oz. lots oz. 1.10 - —
Phosphate, NF, cns., 100-oz. lots oz. 1.14 - —
Sulfate, USP, powd., cns., 100-oz. lots oz. .85 - —
Crystals, 25-oz. lots oz. .96 - —
Styrene monomer, dms., c.l., works, lb. .22½ - —
t.c.l., works lb. .23¼ - —
tanks, works lb 21 —
Styrolyl acetate, bots lb. 1.45 - 1.70
Sucrose, refd., white, bgs., ref'y East 100 lbs. 8.80 - —
Octa-acetate, denaturing grade, 100-200-lb. bgs., l.c.l., works, lb. .76 - —

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Barium Fluoride
Bismuth Fluoride
Boron Trifluoride
Boron Trifluoride Complexes
Chromium Fluoride
Copper Fluoborate
Fluorboric Acid
Fluorine Cells
Fluorinating Agents
Frosting Mixtures
Hydrofluoric Acid Anhydrous
Hydrofluoric Acid Aqueous
Hydrofluosilicic Acid
Lead Fluoborate
Metallic Fluoborates
Potassium Bifluoride
Potassium Chromium Fluoride
Potassium Fluoborate
Potassium Fluoride
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Sodium Fluoborate
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Sulfabenzamide, dms. lb. 4.00 - 4.50
Sodium dms lb 4.10 4.60
Sulfacetamide, fib. dms. lb. 4.00 - 4.20
Sodium fib dms lb 5.00 5.20
Sulfadiazine, USP, microcrystals, dms lb.10.60 -11.10
powder, dms. lb..10.25 -10 75
Sulfadiazine-sodium, USP, dms lb.11.25 -11.75
micro crystals dms lb.10.60 -11.10
Sulfaguanidine, USP, dms lb. 2.50 - —
Sulfamerazine, USP, micro crystals. lb.10.65 -11.15
Sulfamerazine-sodium, USP, dms., lb.11.25 -11.75
Sulfamethazine, micro crystals, dms. lb. 8.90 - 9.40
powder dms lb 8.50 9 00
Sulfanilamide, USP, 30-80 mesh., dms lb. 1.40 - 1.60
microcrystals, dms. lb. 1.70 - 1.90
powder dms lb 1.30 1.50
Sulfanilamide quinoxaline, veterinary, dms lb. 6.50 - 6.75
Sulfapyridine, NF, powd., bots., tins, lb. 7.00 - 7.50
Sulfapyridine-sodium, monohydrate, dms lb. 7.50 - 8.00
Sulfathiazole, USP, micro crystals, dms lb. 3.15 - 3.30
powder dms lb 2.80 2.95
Sulfathiazole-sodium, USP, dms lb. 3.05 - 3.20
Sulfur, commercial, flour, bgs, mines 100 lbs. 2.30 - —
bbls., mines 100 lbs. 3.05 - —
lump, bgs., mines 100 lbs. 2.20 - —
bbls. mines 100 lbs 2.65 - —
Sulfur, crude, bulk, c.l., mines, contract long-ton.26.50 - —
export, f.o.b. vessels, Gulf ports long-ton.31.00 -33.00
domestic and Canada, f.o.b. vessel Gulf port long-ton.28.00 -29.50
refined, flowers, USP, bgs., mines, 100 lbs. 4.00 - —
bbls. 100 lbs. 5.25 - —
flour, light, bgs., mines 100 lbs. 3.60 - —
bbls., mines 100 lbs. 4.50 - —
lump, bgs., mines 100 lbs. 3.30 - —
rolls, bgs., mines 100 lbs. 3.85 - —
bbls., mines 100 lbs. 4.40 - —
salt block, bgs., mines 100 lbs. 3.50 - —
virgin block, bbls., mines 100 lbs. 3.45 - —
rubbermakers, com'l, regular, bgs., mines 100 lbs. 2.40 - —
bbls., mines 100 lbs. 3.55 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.50 - —
bbls., mines 100 lbs. 3.65 - —
refined, bgs., mines 100 lbs. 3.25 - —
bbls mines 100 lbs. 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.70 - —
bbls., mines 100 lbs. 3.85 - —
10% pine tar, bgs., mines. 100 lbs. 3.90 - —
Dichloride, dms., c.l., works, frt. equald lb. .03¾- —
l.c.l., same basis lb. .04½- —
tankcars, same basis lb. .03½- —
Dioxide, liquid, coml., cyls., works. lb. .09 - —
multi unit cars, works lb. .0535- —
tanks works lb. .045 - —
refrigeration, cyls., c.l., dlvd. lb. .24 - —
Sulfur monochloride, 55-gal., dms., c.l., frt. equald lb. .03¾- —
l.c.l., same basis lb. .04½- —
tankcars, same basis lb. .03½- —
Sumac leaves, 28%, bgs., ex-dock, ton.130.00 - —
ground, ex-dock ton.125.00 - —
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Baltimore, unit-ton. .88 - .91
Carteret, N. J. unit-ton. .88 - .91
triple, 46% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.25 - —
l.c.l., same basis lb. 1.30 - 2.30
Isopropyl, ester, dms., c.l., works, frt. equald lb. 1.30 - —
l.c.l., works lb. 1.35 - —
Talc, dom., ord., Calif., grad., bgs., c.l., works ton.32.00 -38.50
Vermont off color, grd., bgs., c.l., works. ton.14.00 - —
l.c.l., works ton.17.50 - —
fibrous, New York, grd., bgs., c.l., works. ton.25.00 -30.00
l.c.l, works ton.28.00 -30.00
99.5%, 325 mesh, bgs., c.l., works. ton.27.00 - —
l.c.l., works ton.30.00 -32.00
99.95% micronized, bgs., works ton.36.00 - —
Imp. Canadian grd., bgs., c.l., mines ton.15.25 -35.00
Tallow, edible, tanks, dlvd lb. .11¼- Nom.
inedible, extra, tanks, dlvd. lb. .06½- —
fancy, bleachable, tanks, dlvd. lb. .06¾- —
No. 1, tanks, dlvd lb. .05⅞- —
special tanks, dlvd. lb. .06¼- —
sulfonated, 25%, bbls., l.c.l. lb. .08 - —
50%, bbls., l.c.l. lb. .10 - —
Tankage, animal, feeding, 9-11% ammonia, bulk unit-ton. 7.75 - —
Chicago unit-ton. 8.25 - —
Tapioca flour, Brazilian, ex whse, bgs lb. .13 - .14½
Java, AAA, bgs., ex whse., bgs. lb. .07¼- .07¾
AA, bgs., ex-whse lb. .07 - .07⅛
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis gal. .50 - .51
tanks, same basis gal. .39 - —
25-28%, dms., c.l., same basis, gal. .54 - .56
l.c.l., same basis gal. .57 - .58
tanks, same basis gal. .46 - —
50-53%, dms., c.l., same basis. gal. .70 - .72½
l.c.l., same basis gal. .73½- .74½
tanks, same basis gal. .62½- —
Coal (see Coaltar).
Tartar emetic (see Antimony-potassium tartrate).
Terpine glycol ether, dms., c.l., works. lb. .23½- —
l.c.l., works lb. .25½- —
tanks, works lb. .22 - —
Hydrate, coml., bbls., c.l. lb. .24½- —
l.c.l. lb. .25 - .25⅛
NF, cryst., fib. dms. lb. .57½- .62
powd., fib., dms. lb. .65 - .69
a-Terpineol, dms., l.c.l., dlvd. E lb. .19 - —
Terpineol, com'l, dms., c.l., South. lb. .13½- —
l.c.l., South lb. .14 - —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .57 - .75
prime, dms lb. .55 - .70
Propionate dms lb. 1.75 - 2.00
Terra alba, (see Gypsum).
Testosterone, USP, 100-gm. lots, bots. gram. .79 - —
Propionate, USP, 100-gm. lots, bots. gram. .75 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55-gal. dms., works lb. .20½- .21⅛
smaller, dms. works lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., works lb. .71 - —
l.c.l. lb. .72 - —
Pyrophosphate, 46%, cns., dms., frt. equald lb. .69 - —
Tetraethylenepentamine, dms., c.l., dlvd., E lb. .57½- —
l.c.l., dlvd. E lb. .58¼- —
tanks dlvd. E lb. .56 - —
Tetrapotassium phosphate, (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium metal, dlvd lb.12.50 -15.00
Sulfate, 99%, bots., dlvd lb. 8.00 -13.00
Theobromine, NF, fib. dms lb. 3.35 - —
And sodium acetate, USP, fib dms lb. 3.75 - 3.80
Sodio-Salicylate, NF, fib. dms lb. 3.05 - 3.10
Theophylline anhydrous, or USP, 100-lb. dms lb. 3.65 - —
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. kilo.135.00 - —
Mononitrate, USP, fib. dms kilo.135.00 - —
Thiocarbanilide, dms lb. .50 - .59
Thiodiphenylamine (see Phenothiazine).
Thiophene, dms., c.l., works lb. No stocks
Thiourea, tech., dms., c.l., works lb. .40 - —
l.c.l., works lb. .42 - —
Thorium nitrate, purified, fib. dms., 100-lb. lots or more, works lb. 3.50 --
dl-Threonine, bots., 1-kilo lots kilo.450.00 -500.00
Thyme, French, ogs lb 21 25
Spanish, bls lb. .10½- .11
Thymol, fib. dms lb. 2.75 - 3.00
Iodine, NF, dms lb. 7.30 - —
Timbo root (see Cube root).
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous).
Metal (Straits) lb. .94 - —
Oxide (see Stannic oxide).
Sulfate (see Stannous sulfate).
Tetrachloride anhyd. (see Stannic chloride, anhydrous).
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
ceramic, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
regular, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd lb. .23½- —
metallurgical, natural, granular, bgs., c.l., f.o.b. Jacksonville, Fla ton.120.00 - —
Niagara Falls, N. Y. ton.137.50 - —
5-ton lots, same basis. ton.142.50 - —
ton lots, same basis. ton.147.50 - —
Milled titanium dioxide $7.50 per ton higher.
rutile, non-chalking, bgs., c.l., dlvd. E lb. .24½- —
l.c.l., dlvd. E lb. .25½ - —
Hydride, cns., works lb. 7.95 - 9.00
Pigment, calcium-rutile base, bgs., c.l., dlvd lb. .08¾- —
l.c.l., dlvd lb. .08½- —
Tetrachloride, tech., dms., c.l., works lb. .40¾- —
l.c.l., works lb. .43¾- —
tankcars, works lb. .39¾- —
a-Tocopherol, bots kilo.182.00 - —
Acetate, bots kilo.165.00 - —
o-Tolidine base, distilled, kgs lb. 1.30 - —
Tolu balsam, cns lb. 4.00 - —
Toluene (see Toluol).
p-Toluenesulfonamide, flake, dms., frt. alld lb. .64 - .66
powder, works lb. .70 - —
solid, frt. alld lb. .61 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .79 - —
l.c.l., same basis lb. .80 - —
tanks, same basis lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
l.c.l., same basis lb. .25 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld lb. .64 - —
solid, dms., frt. alld lb. .60 - .61
Toluol, coaltar, industrial or nitration, tanks works
Bethlehem, Pa. gal. .34 - —
Birmingham dist gal. .32 - —
Chicago dist gal. .35 - —
Cleveland, dist gal. .34½ - .35
Geneva, Utah gal 26 - —
Johnstown, Pa. gal. .32 - —
Lackawanna N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .33 - —
Minnequa, Colo gal. .32 - —
Philadelphia district gal. .34 - —
Pittsburgh dist gal. .32 - —
Sparrow's Point, Md gal. .34 - —
Terre Haute, Ind gal. .35 - —
Youngstown, Ohio gal. .32½- .33
petroleum, indust., 2° tanks, works:—
Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Detroit, Mich gal .35 - —
Houston, Tex. gal. .35 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .35 - —
2,4-Tolylenediamine, cryst., fib., dms., frt. alld lb. .94 - —
powd., same basis lb. 1.00 - —
Tonka beans, Angostura, cks lb. 1.65 - 1.80
Brazilian, Surinam, cs lb. 1.00 - 1.25
Totaquine, 100-oz. lots, cns oz. .42 - —

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Toxaphene—Wax, Microcrystalline

Toxaphene, dms., c.l., works....lb. .17 - —
truckloads, works.....lb. .17 - —
ton to truckloads, works....lb. .20 - —
smaller lots, works.....lb. .23 - —
Triacetin, dms., c.l., divd. E, of Rockies lb. .39 - —
l.c.l., same basis.....lb. .40 - —
tanks, same basis.....lb. .37 - —
Tributyl citrate, tech., dms., c.l lb. .40½- —
l.c.l. .....lb. .41½- —
tanks .....lb. .39 - —
Phosphate, dms., c.l., works lb. .52 - —
l.c.l. same basis.....lb. .53 - —
tanks .....lb. .50 - —
Tributylamine, dms., c.l., works, lb. .74 - —
l.c.l., same basis.....lb. .73 - —
tanks, same basis.....lb. .72 - —
Trichlorobenzen's, ams., c.l., works, frt. alld. E lb. .14½- —
l.c.l., frt. alld E.....lb. .15½- —
tanks, frt. alld. E.....lb. .13 - —
Prices in the W st 1¾c. higher.
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald. lb. .11¼- —
divd. E .....lb. .12½- —
l.c.l., divd. E .....lb. .13½- —
tanks, works, frt. equald ....lb. .10¼- —
divd E .....lb. .11 - —
Trichloroethane, dms., c.l., works.lb. .15 - —
l.c.l., works .....lb. .13½- —
tanks, works .....lb. .11½- —
Tricholine citrate, 65% soln., ret. chys., works frt adjusted lb. 1.40 1.45
Tricresyl phosphate, coaltar, dms., c.l., divd lb. .35 - —
l.c.l divd. .....lb .36 - —
tanks, divd. .....lb. .33 - —
petroleum, dms., c.l., divd lb. .35 - —
l.c.l. divd. .....lb. .36 - —
tanks, divd. .....lb. .33 - —

Triethanolamine, dms., c.l., divd. E..lb. .23¼- —
l.c.l., same basis.....lb. .24¼- —
tanks, same basis.....lb. .21¼- —
Triethylamine, dms., c.l., works, divd. E lb. .47 - —
l.c.l., same basis.....lb. .48 - —
tanks, same basis.....lb. .45 - —
Triethyl phosphate, dms., c.l., works lb. .38 - —
l.c.l., same basis.....lb. .39 - —
tanks, same basis.....lb. .37 - —
Triethylene glycol, dms., c.l., divd. E. lb. .18¼- —
l.c.l., same basis.....lb. .19¼- —
tanks, same basis.....lb. .16½- —
Triethylenetetramine, dms., c.l., divd. E lb. .48¼- —
l.c.l., divd. E. .....lb. .49½- —
tanks, divd. E .....lb. .47 - —
Trimethylamine, 25-40%, dms., c.l., works, frt. equald., 100% basis. lb. .38 - —
l.c.l., works, frt. equald, 100% basis lb. .38½- —
tanks, works, frt. equald, 100% basis lb. .33 - —
Tripentaerythritol, bgs., l.c.l., works. lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald .....lb. .40 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene glycol, dms., c.l., frt. alld. lb. .18¼- —
l.c.l., frt. alld.....lb. .19¼- —
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic)
Phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:80, dms., works lb. 5.00 - 5.50

dl-Tryptophane, fib, ctns., works. kilo.165.00 - —
Tuba root (see Cube root).
Tungsten metal, powd., 98.8%, dms., divd..lb. 4.98 - —
Turpentine, gum and wood (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots.....gram. .75 - .85

U

Urethane, USP, dms.....lb. 1.50 - —
Unicorn root, false (see Helonias root).
True (see Aletris root).
Urea, dom., 46% N, bgs., c.l., works. lb. .06 - —
l.c.l., works .....lb. .06½- —
45% N, bgs., c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and E..ton.154.00 - —
l.c.l., divd.....ton.162.00 - —
Urea-ammonia liquor, A and B grades, N basis, tankcars, Belle, W. Va. ton.128.00 - —
C grade, tankcars, same basis. ton.126.50 - —
37 grade, tankcars, same basis. ton.155.50 - —
Uva ursi leaves, bls.....lb. .12 - .14

V

Valerian root, Belgian, bgs.....lb. .38 - .40
dl-Valine, dms., works.....lb.21.00 -27.50
Valonia beards, 40-42% tannin, bgs., ex-dock ton.64.50 Nom.
cups, 28-30% tannin, bgs., exdock. ton.49.00 Nom.
extract, powd., 62% tannin, bgs., ex-dock, duty extra..lb. .08¾- .09¼

Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins....lb. 9.50 -10.50
Mexican, cuts, tins.....lb. 9.25 - 9.75
whole, tins .....lb. 9.50 -10.50
Tahiti, cs. .....lb.10.00 - —
Vanillin, ex eugenol, tins, 25-lb. lots. lb. 6.50 - 6.75
smaller lots.....lb. 6.90 - 7.25
ex guaiacol, tins, 25-lb. lots....lb. 3.00 - —
smaller lots.....lb. 3.05 - 3.15
ex lignin, tins, 25-lb. lots.....lb 3.00 - —
smaller lots, cins lb 3.05 3.15
Vinyl acetate monomer, 55-gal. dms., c.l., divd. E..lb. .18½- —
l.c.l., divd. E.....lb. .19½- —
tankcars, divd. E.....lb. .16½- —
tankcars, divd. E.....lb. .17½- —
n-Butyl ether, tech., dms., c.l., works..lb. .28 - —
l.c.l., works.....lb. .30 - —
tanks, works.....lb. .27 - —
Chloride monomer, cyls., frt. equald..lb. .26 - —
tanks, same basis.....lb. .13¼ —
Ether, USP, anesthesia, bots., 50 c.c., hospitals, bot. 1.12 - —
75 c.s.....bot. 1.56 - —
Ethyl ether, tech., dms., c.l., works..lb. .26 - —
l.c.l., works.....lb. .28 - —
tanks, works.....lb. .25 - —
Isobutyl ether, tech., dms., c.l., works..lb. .28 - —
l.c.l., works.....lb. .30 - —
tanks, works .....lb. .27 - —
Methyl ether, cyls., works....lb. .23 - —
tanks, works .....lb. .20 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Trichloride (see Trichloroethane).
2-Vinylpyridine, dms., works....lb. 1.40 - 1.50
Vinyltoluene, dms., c.l., works..lb. .20¼- —
l.c.l., works .....lb. .21¼- —
tanks, works .....lb. .19 - —
Viosterol, in alcohol, 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .026 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in nat., veg. oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .02 - .04¾
lots of 1 billion USP units, 1,000,000 units. .025 - .05¼
lots of less than billion USP units, 1,000,000 units. .03 - .05¾
Vitamin A synthetic, acetate, crystalline beads, 500,000 A units per gram..gram. .07¼- —
liquid in oil 1,000,000 A units per gram, 1,000,000 units. .12 - —
Palmitate, liquid, 1,000,000-1,800,000 A units per gram..1,000,000 units. .12 - —
in oil, 1,000,000 A units per gram..1,000,000 units. .12 - —
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran concentrate and Yeast).
B_6 (see Pyridoxine hydrochloride).
B_{12}, crystalline, 1-gram or 5-gram vials..gram.245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity..gram.185.00 - —
C (see Acid, ascorbic)
D (see Oils, codliver and fish-liver, Calciferol, and Viosterol).
D_2 (see Calciferol)
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin)
K, Active (see Menadione).
K_1, 25 gram bots.....gram. 4.50 - —
Violet methyl toner (see Blue methylviolet toner
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls.....lb. 2.10 - —
Warfarin, 0.5%, dms., 50 lb lots, divd lb 1.95 - —
25-49 lb. lots, f.o.b., N.Y., or Chi lb 2.05 - —
5-24 lb. lots, cns, f.o.b., N. Y., or Chi lb 2.15 - —
Wattle bark, fair average, African, bgs., ex dock ton.98.00 - —
merchantable, bgs., ex dock.ton.94.00 - —
extract, liquid 35% tannin bbls., lb. .09¾- .10
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 - —
S. Africa, 60% tannin, ex-dock, duty extra lb. .10 - —
Wax amorphous (see Wax microcrystalline)
Bayberry, bgs., spot.....lb. .42 - .45
Bees, crude, African, bgs.....lb. .54 - .56
Brazilian bgs .....lb. No stocks.
Central American, bgs....lb. .55 - .57
Chilean, bgs.....lb. .56 - .57
refined, bleached, white, bricks lb. .73 - .75
slabs .....lb. .72 - .74
yellow, bricks.....lb. .60 - .61
slabs .....lb. .59 - .60
Candelilla, crude, bgs.....lb. .64 - .66
refined, bgs.....lb. .67 - .69
Powdered candelilla, 20 mesh, 5c. per lb. higher; 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, bgs., ton lots, lb. .80 - .82
North Country, No. 2, bgs., ton lots..lb. .88 Nom.
No. 3, Ceara, crude, bgs., ton lots..lb. .82 - .84
refined, bgs., ton lots.lb. .84 - .90
Parnahyba, crude, bgs., ton lots..lb. .85 - .87
yellow, No. 1 Ceara, bgs., ton lots..lb. 1.12 - 1.14
Parnahyba, bgs., ton lots..lb. 1.15 - 1.17
No. 2, bgs., ton lots.....lb. 1.10 - 1.12
Powdered carnauba wax price differentials same as powdered candelilla.
Japan, bgs.....lb. .40 - .42
Microcrystalline, 170°-175°F., m.p., ASTM, penetration 15-30, amber, ctns., 20,000 lbs., group 3, works..lb. .13 - .14
smaller lots, same basis. lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½- .12½
smaller lots, same basis. lb. .12½- .13½
white, ctns., 20,000 lbs., same basis..lb. .24 - .25
smaller lots, same basis. lb. .25 - .26
180°-185°F., m.p., ASTM, penetration, 7-11, amber, ctns., 20,000 lbs., same basis lb. .16 - —
smaller lots, same basis. lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½- —
smaller lots, same basis. lb. .15½- —

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smaller lots, same basis. lb. .28 - —
190°-195°F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis lb. .20 - —
smaller lots, same basis. lb. .20½- —
black, ctns., 20,000 lbs., same basis lb. .18 - —
smaller lots, same basis. lb. .18½- —
white, ctns., 20,000 lbs., same basis lb. .33½- —
smaller lots, same basis. lb. .34½- —
Montan, dom., refined, bgs lb. .31 - .32
imported, crude, Bohemian, bgs lb. .13½- .14
German, bgs lb. .14 - .14½
Ouricury, refd., bgs lb. .99 - 1.00
Paraffin (see P).
Spermaceti, blocks, cs lb. .25½- .31
cakes, cs lb. .26½- .32
Sugar cane dom., ref'd., mapl, works lb. .75 - .80
spot lb. .77¼- .82¼
White lead (see Lead, white).
White pine bark, rossed, bls lb. .18 - .19
White precipitate, USP, powd., dms. lb. 6.05 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, natural, bls lb. .18 - .19
rossed, bls lb. .19 - .22
Ginger (see Snake root, Canada).
Witch hazel bark, bls lb. .16 - .17
leaves, bls lb. .18 - .19
Woolfat, crude (see Degras).
USP (see Lanolin).
Wormseed, American, bgs lb. .20 - .25
Levant, bgs lb. 4.25 - 4.50

X

Xylene (see Xylol).
Xylenol, cryst., 58°-69°C., m.p., dms., l.c.l., works lb. .40 - —
56°-58°C., dms., l.c.l., works, frt. equald lb. .30 - —
45°-47°C., dms., c.l., same basis. lb. .212 - —
l.c.l., same basis lb. .215 - —
tanks, same basis lb. .199 - —
fractions, over 7°C. b.r., except meta, dms., c.l., same basis gal. .96 - —
l.c.l., same basis gal. .99 - —
tanks, same basis gal. .85 - —
meta fraction, over 7°C. b.r., ems., c.l., same basis gal. 1.01 - —
l.c.l., same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
Xylidines, mixed, dms lb. .39 - .50
Xylol, coaltar, indust., tanks, works, Bethlehem, Pa gal. .34 - —
Birmingham district gal. .32 - —
Chicago district gal. .35 - —
Cleveland district gal. .35 - —
Geneva, Utah gal. .27 - —
Johnstown, Pa. gal. .33 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .33 - —
Minnequa, Colo. gal. .34 - —
Philadelphia district gal. .34 - —
Pittsburgh district gal. .32 - —
Sparrows Point, Md. gal. .34 - —
Terre Haute, Ind. gal. .35 - —
Youngstown, O. gal. .32½- —
petroleum, indust., tanks, works:—
Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Houston, Tex. gal. .35 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .35 - —

Y

Yara yara, ctns lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb. dms lb. .53 - —
200 Int'l B units per gram, 100-lb. dms lb. .56 - —
300 Int'l B units per gram, 100-lb dms lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island St. Louis St. Paul lb. .35 - —
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below
Benzidine, AAA, bbls., dlvd lb. 1.91 - —
AAOT bbls lb 2.15 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies lb. 2.85 - —
lithopone, all shades, bbls., frt. alld., E. of Rockies lb. 1.15 - —
Cadmium yellows, Los Angeles, and San Francisco ex whse. 1c. per lb. higher.
Chrome, CP, bbls., dlvd. N. Tenn., and N.C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .31 - —
Dlvd Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago
Hansa, 10 G, bbls., same basis as yellow, chrome lb. 2.15 - —
G pigment, bbls lb. 1.91 - —
Iron oxide, natural, French type, bgs., c.l., works lb. .05¼- —
Peruvian type, bgs., l.c.l lb. .038 - —
pure, bgs., c.l., works lb. .10½- —
l.c.l., works lb. .10¾- —
Mercury oxide, bbls., 1,000-lb. lots. lb. 5.10 - —
smaller lots lb. 5.12 - —
Ocher (see Yellow, iron oxide, natural)
Zinc (chromate), bbls., dlvd lb. .25 - —
basic dlvd lb. .30 - —
Yerba santa leaves, bls lb. .40 - —
Yohimbine hydrochloride, bots, tin. oz. 4.75 - 5.25

Z

Zein, bgs., 30,000-lb. lots, works lb. .38 - —
1,000 to 30,000-lb lots, works lb. .40 - —
smaller lots works lb. .42 - —
Zinc acetate, tech., bbls., dms., works lb. .27 - —
NF VIII, dms lb. .53 - —
Borate, bgs., c.l., dlvd. E. lb. .192 - —
l.c.l. dlvd E lb. .202 - —
Chloride, NF, gran., dms lb. .42 - —
precipitated powd., dms lb. .26 - —
solution 50% dms., c.l., works, 100 lbs. 5.50 - —
l.c.l., works 100 lbs. 6.10 - —
tanks, works 100 lbs. 4.85 - —..
Zinc chloride, tech., fused, dms., c.l., works 100 lbs. 10.10 - —
l.c.l., works, dms 100 lbs. 10.60 - —
gran., fib., dms., c.l., works 100 lbs 10.60 - —
l.c.l., works 100 lbs. 11.00 - —
Chromate (see Yellow, zinc).
Cyanide, kgs., 1,000-lb. lots or more, works lb. .523 - —
smaller lots, works lb. .543 - —
Dust, pigment, bbls., c.l., works lb. .14¼- —
l.c.l., works lb. .15¼- —
Fluoride, bbls., works lb. .49 - .50
Hydrosulfite, dms., c.l., frt. alld. lb. .21½- —
l.c.l., frt. alld lb. .22 - .37½
Metal, prime western slabs, E. St. Louis lb. .11 - —
Naphthenate, liquid, 8% Zn., dms., frt. alld lb. .24½- —
10% Zn. dms., frt alld lb. .30 - —
Oxide, pigment, American process, lead-free, bgs., c.l., dlvd lb. .13½- —
l.c.l., dlvd lb. .14½- —
leaded 35%, bgs., c.l., dlvd lb. .14 - —
l.c.l., dlvd lb. .15 - —
50%, bgs., c.l., dlvd lb. .14½- —
l.c.l., dlvd lb. .15½- —
French process, com'l green seal, bgs., c.l., dlvd lb. .15¼- —
l.c.l., dlvd lb. .16¼- —
red seal, bgs., c.l., dlvd lb .14¾- —
l.c.l., dlvd lb. .15¾- —
white seal, bgs., c.l., dlvd. lb. .15¾- —
USP, ctns., c.l., dlvd lb. .16¾- —
l.c.l., dlvd lb. .17¾- —
Zinc oxide Pac. coast prices 1c. higher.
Zinc phenosulfonate, NF, gran., dms. lb. .39 - —
powd., dms lb. .42 - .49
Resinate, precip., dms., frt. alld. lb. .26¾- —
Silicofluoride, bbls., works lb. .12 - .13
Stearate, tech., USP, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
Sulfate cryst., 22% Zn, bgs., c.l., works, frt. alld. 100 lbs. 8.05 - —
l.c.l., same basis 100 lbs. 8.60 - —
100 lbs. 5.60 - —
c.l., works 100 lbs. 5.60 - —
flake, 25½% Zn., bgs., works, 36% Zn., bgs., c.l., frt. alld. 100 lbs. 7.90 - 8.05
l.c.l., same basis 100 lbs. 8.65 - 8.80
powdered, monohydrate, bgs., c.l., dlvd. E. 100 lbs. 7.90 - —
l.c.l., dlvd. E. 100 lbs. 8.65 - —
Zinc sulphate in bbls. 40c higher.
USP, gran dms lb .26 —
Sulfide, pure, bgs., c.l., dlvd lb. .2530- —
Undecylenate, dms. lb. 2.25 - 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 9.65 - —
bbls., c.l., works 100 lbs. 10.25 - —
l.c.l., bbls., works 100 lbs. 10.75 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l. lb. .23½- —
l.c.l. lb. .26 .41½
normal dms (c.l. works lb .52 —
Zircon (G), granular, bgs., c.l., works lb. .03½- —
5 tons to c.l., works lb. .03⅜- —
1 ton to 9,999-lb lots, works. lb. .04 - —
smaller lots, works lb. .06½- —

Wax, Microcrystalline—Zirconium Oxychloride

Zircon (G), milled, bgs., c.l., works lb. .04½- —
5 tons to c.l., works lb. .04⅜- —
1 ton to 9,999-lb lots, works. lb. .04⅝- —
500 to 1,999-lb. lots, works. lb. .07½- —
Zircon (G) in barrels, 1c. higher.
Zirconium acetate, 13% soln. ZrO_2, c.l., 30,000 lbs. minimum, works lb. 23 —
Hydride, ctns., works lb. 7.00 - 8.45
Nitrate, dms., ex whse 10 6.50 7.09
Oxide, 92½%-99%, white, grd., bbls., or bgs., works lb. 7.50 —
lump, electric-fused, bgs., c.l., works lb. .44 - —
5-ton lots, works. lb. .44½- —
1 ton to 9,999-lb. lots, lbs., works lb. .45 —
CP, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric fused, bags, 500 to 1,999-lb. lots, works lb. .45½- —
smaller lots, works. lb. .48 - —
milled, electric-fused, bgs., c.l., works lb. .50 —
5-ton lots, works lb. .50½- —
1 ton to 9,999-lb. lots, works lb. .60 —
500 to 1,999-lb. lots, works lb. .60½- —
smaller lots, works. lb. .63 - —
Oxychloride, cryst., ctns., 5-ton lots, works lb .35½- —

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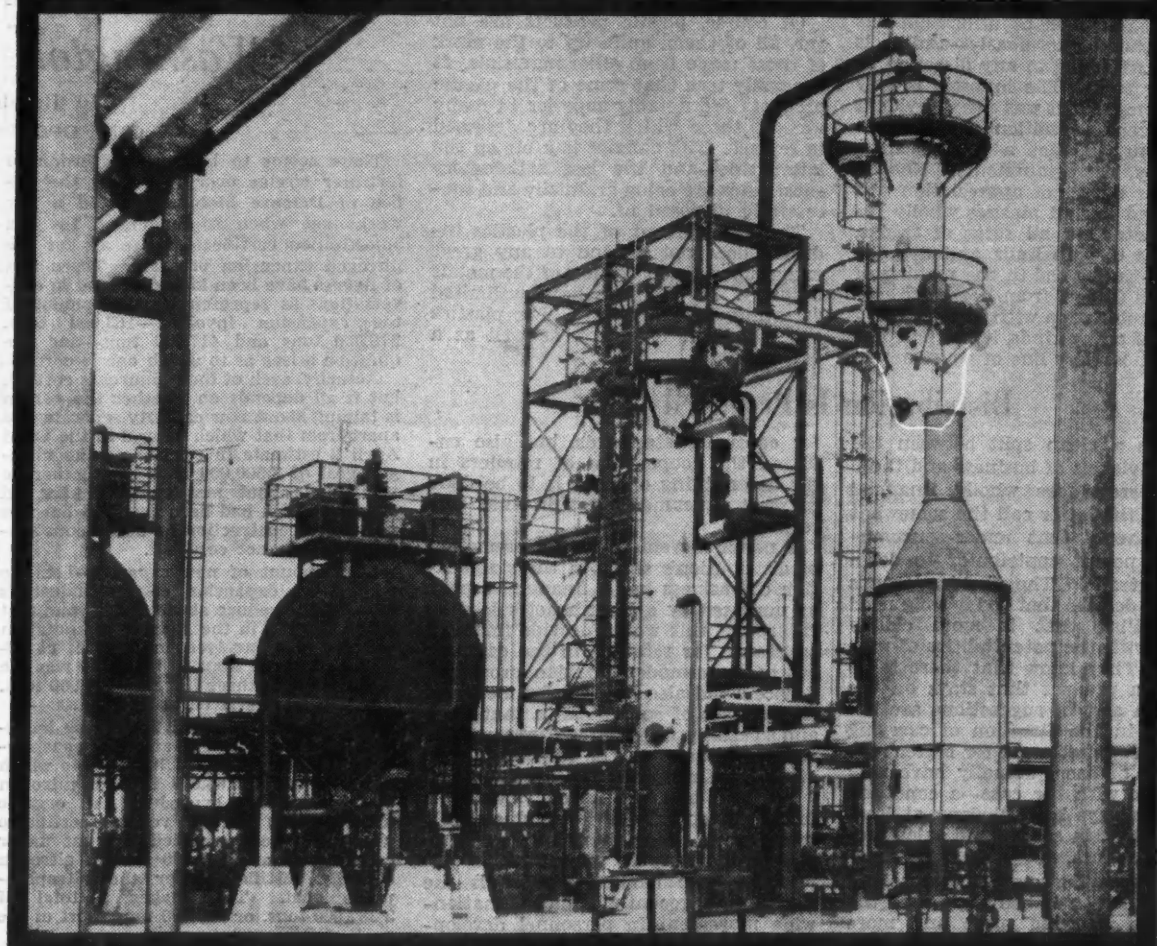

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Plastics Age Is Past Its Dawn

Along about the same time, not many days ago, the public press was telling on one page about the forecasting of colossal expansion in the metal industries between now and 1960 and setting forth on another page the expecting of a doubling of the output of plastic materials within the next four years. There is no reason to doubt the accuracy of either of the predictions—but the rosier light beams in the plastics area. The plastics age is getting beyond its dawn.

It is a sign of various sorts of encouragement that the plastics industry faces its future of growth as one of responsibility, as well as of profit. It has pronounced a statement of principles and a declaration of intent to "understand" what it offers to the public and to use the proper material in the several areas of its processing activities.

The processing of plastic materials has kept pace with the technical progress in the producing of new and better materials. The field of utilization has been expanded enormously—and it is by no means as big in any direction as it is going to be. The industry is only in its infancy, but it was clearly evident at the recent exposition that it is a lusty infant, in fact a prodigy in a multiplicity of attainments. Nobody with a fair degree of appreciation will be surprised to find plastics wholly replacing metals in all sorts of things, from pipes to ship hulls and doing a better job than wood in the making of numberless things, from houses to violins. In combination with fine-particled minerals of many kinds, it has possibilities in almost very line of construction and production. The progress made in any number of lines presents ample evidence of that role.

The extent to which plastics will replace metals is one of the biggest fields of economic "guessing" today. The possibilities appear to be unlimited as the progress in production progesively meets and solves problems of hazard and unsatisfactoriness which were met when such things as plastic automobile bodies were first talked about. Combinations with metals offer many areas for development. Some of them are uniquely interesting—for example, the use of organic salts of tin in plastic compositions to produce a material of an especially useful type. It could be that, by the time plastics have replaced metallic tin as a coating for, say, cans, tin salts will have been adapted to the improving of plastic materials to the extent that there will be no reduction in the overall consumption of tin.

Of course, plastic products are not yet, all of them, quite up to the mark of those made from other materials. It is equally true that some of the plastic products are notably superior in many ways to those which they are designed to replace. The balance is a bit on the latter side—and the less satisfactory substitutes are being gradually and successfully disposed of.

The development of the plastics industry does not depend to any great extent upon its succession of the metals industry. Its products have unlimited versatility in many ways. The plastics age will be a universal, as well as a better one.

Distribution Is Promoted

There is a clean split between the working divisions of business and those whose interests are wholly financial over what the latter call the somewhat specious theory that under-consumption is a potent contributor to down trends in trade. The working groups know and declare that today's big need is for selling that is more closely matched with the potentialities of production. They know that there is no profit in a product that stays on the shelf. All sort of suggestions are being made in the direction of carrying out the recognized need for better selling: some of them actually have very little to do with the case—a condition that has always been obvious, at least to bystanders, in selling and sales-promoting practices.

It is encouraging to see that more and more recognition is being given to the benefits of knowing more and more about the attitudes of consumers. And, even though some of the surveys in that area are of the old set-questions style which run too much into made-to-order answers, some good is being got, at least by those who have some measure of openmindedness. So it is that—the textile industry is an outstanding example—manufacturers are, not only laying out programs of construction for consumer standards, but also enlisting the cooperation of retailers in the determining of what is to be done to meet consumer views in that direction.

A newer movement in the promotion of distribution's share in the stabilization of business has a financial aspect, as purposed by a large wholesale drug enterprise, this would provide financial assistance for retailers in the carrying out of store-moderninzation programs. Advice could also be given by means of the services of specialists in that field, and specially designed fixtures will be made available. In the radio field, one of the leading producers has launched a program to assist its distributors in pricing inventories of its products on a scale much wider than had been experimented with for some time.

"Sales keep us in business" is the slogan of a recently launched nation-wide movement in personnel development. It states a basic economic truth which has a large and important place in putting business where it should be—and would be as its activity merits. It is all right for politicians to be declaring that business will get better. The practical man knows that it must be made better—and that the measure of its improvement is that of increase in distribution into consumption.

For the Bookshelf

CHEMICAL ENGINEERING IN PRACTICE. By James I. Harper. Cloth; 140 pages, 5 x 7½ in. New York: Reinhold Publishing Corporation. $3.

This book is based on a symposium jointly sponsored by the Philadelphia-Wilmington section of the American Institute of Chemical Engineers and the department of chemical engineering of the University of Pennsylvania, under the title of "Chemical Engineering in the Process Industries." The various talks by different company representatives at the symposium show the interest and value of the chemical engineer at all levels and phases of the chemical business. It thus presents to students and to management an understanding of the functions of the modern chemical engineer and where he fits into the business pattern.

OPD Forum

An Outlet for Individual Opinion

(Anonymous communications will not be recognized but a signer's name will be withheld at request.)

Tung Oil Probe (Cont.)

The Editor,
OIL, PAINT AND DRUG REPORTER.
Sir:—

My attention has been called to a letter in the OPD Forum issue of June 7 by Mr. Marshall Ballard, jr., in which he refers to a statement of the writer quoted in your issue of May 24. This statement merely assayed the prospects of import controls being imposed as a result of the section 22 hearing set by the Tariff Commission for August 10 on the Department of Agriculture's proposal to establish import quotas of 10,800,000 pounds per annum on tung oil. It was pointed out that it would be difficult to defeat the imposition of import quotas if mandatory supports are not taken off tung nuts.

The foregoing is assuredly a sound observation and if Mr. Ballard has an argument to wage with anyone it is not with me but with President Eisenhower who made the recommendation to congress in his agricultural message of January 11 that mandatory supports on tung nuts be repealed (effective with the close of the current crop year). His recommendation is embodied in section 202 of S. 3052 now pending before the senate agriculture committee. In a sense, therefore, Mr. Ballard's letter is a castigation of the President as well as the US Department of Agriculture and the National Agricultural Advisory Commission who recommended the repeal of mandatory supports after a careful study and review of all tangent facts.

Mr. Ballard and those whose views he enunciates defend their right to certain short range benefits acquired by recourse to congress while ignoring the long range benefits which would accrue from supporting the recommendation of the President which would leave the amount of the support price to be placed under tung nuts and oil to the discretion of the Secretary of Agriculture. Under such a program the Secretary of Agriculture could establish supports which would maintain the competitive price relationship between the various domestic drying oils. This is impossible under the present mandatory support system because in arriving at "parity" it is necessary to utilize the most recent ten year average price. The use of such an average price for tung oil results in chaining tung oil prices to ten years which includes two wars accompanied by a dearth of available supplies. Even if the minimum legal rate—60 percent of parity—is employed it places tung oil at a support price level beyond the reach of the greater percentage of tung oil users. Tung oil consumption is held at a relatively low level and excess production above that level must be acquired by CCC. This altogether unsatisfactory situation is frequently defended by the claim that tung oil is required for strategic purposes. This claim, however, is not supported by information in the files of the senate and house agriculture committees received from the Office of Defense Mobilization.

It seems that in a sense the entire question resolves itself into whether domestic tung producers will continue through political pressure to price their product out of the market or whether they want to supply the demand for tung oil which exists at reasonable price relationships with other drying oils.

Washington, D. C.

JOHN B. GORDON
Secretary,
Bureau of Raw Materials
for the American Vegetable
Oils and Fats Industries.

Washington Talks It Over

By Ralph L. Cherry
Chief, OPD Washington Bureau

There seems to be some confusion in fertilizer circles over just what the Office of Defense Mobilization did a few weeks ago when it announced the tax amortization certificate approvals for the nitrogen expansion program. Three sets of figures have been kicked around in conversations as representing the amount of the expansion involved—163,000 tons, 278,000 tons and 417,000 tons—and the question arises as to which one is correct.

Actually, each of these figures is correct, but it all depends on whether the person is talking about new capacity separate and apart from that which figured in the ODM April 2 estimate in relation to the nitrogen goal of 3,500,000 tons, or whether he is talking about new capacity plus old capacity which had been certified but was not under construction or under construction but was not certified.

The amount of new capacity—i.e., the amount of expansion of the industry's capacity to produce above and beyond that which figured in the April 2 computation—which was involved in the tax certificates approved May 20 by ODM was the smallest of the three figures—163,000 tons. This figure is arrived at as follows:—

ODM estimated April 2 that the industry's capacity "in being or under construction" amounted to 2,881,700 tons, to which must be added 265,000 tons of nitrogen obtainable from byproduct and organic wastes, 86,400 tons involved in a certificate which had been certified but not under construction and 103,900 tons of nitrogen capacity certified under the nitrophosphate goal. This makes a total of 3,337,000 tons, or 163,000 tons short of the goal of 3,500,000 tons.

After the April 2 ODM announcement, the holder of the certificate for 86,400 tons (Monsanto) decided against going ahead with its program and turned the certificate back to the agency. Also it was discovered in the case of two plants that their capacities had been overrated in the amount of 28,800 tons. This provided ODM with an additional 115,200 tons that could be certified, or a total of 278,200 tons instead of 163,000 tons. ODM approved eight certificates covering all but 200 tons of the available capacity.

Included in the "capacity in being or under construction" in the April 2 computation was another 139,000 tons of nitrogen involved in one application not previously processed and four applications previously denied. ODM reversed the four denials and approved the unprocessed application. Thus the 139,000 tons, when added to the 278,000 tons, provides the figure of 417,000 tons "involved" in the May 20 actions, but the only expansion above the known capacity on April 2 was 163,000 tons.

US Guidance to Distribution Field

The Department of Commerce, through its newly established office of distribution and the Bureau of Census, is making a number of important contributions to the general subject of improving government services to the distributing branch of industry, but in the one big field of reducing costs of distribution the department can offer very little.

Among the aids now being extended to the industry by the department is a new monthly distribution data guide, and a series of business service bulletins covering a wide range of subjects in the distribution field. The office of distribution is preparing a publication to make its appearance shortly on how to develop and sell new products and the Bureau of Census is improving reports on county business patterns and is working on a project to measure inventories at all levels.

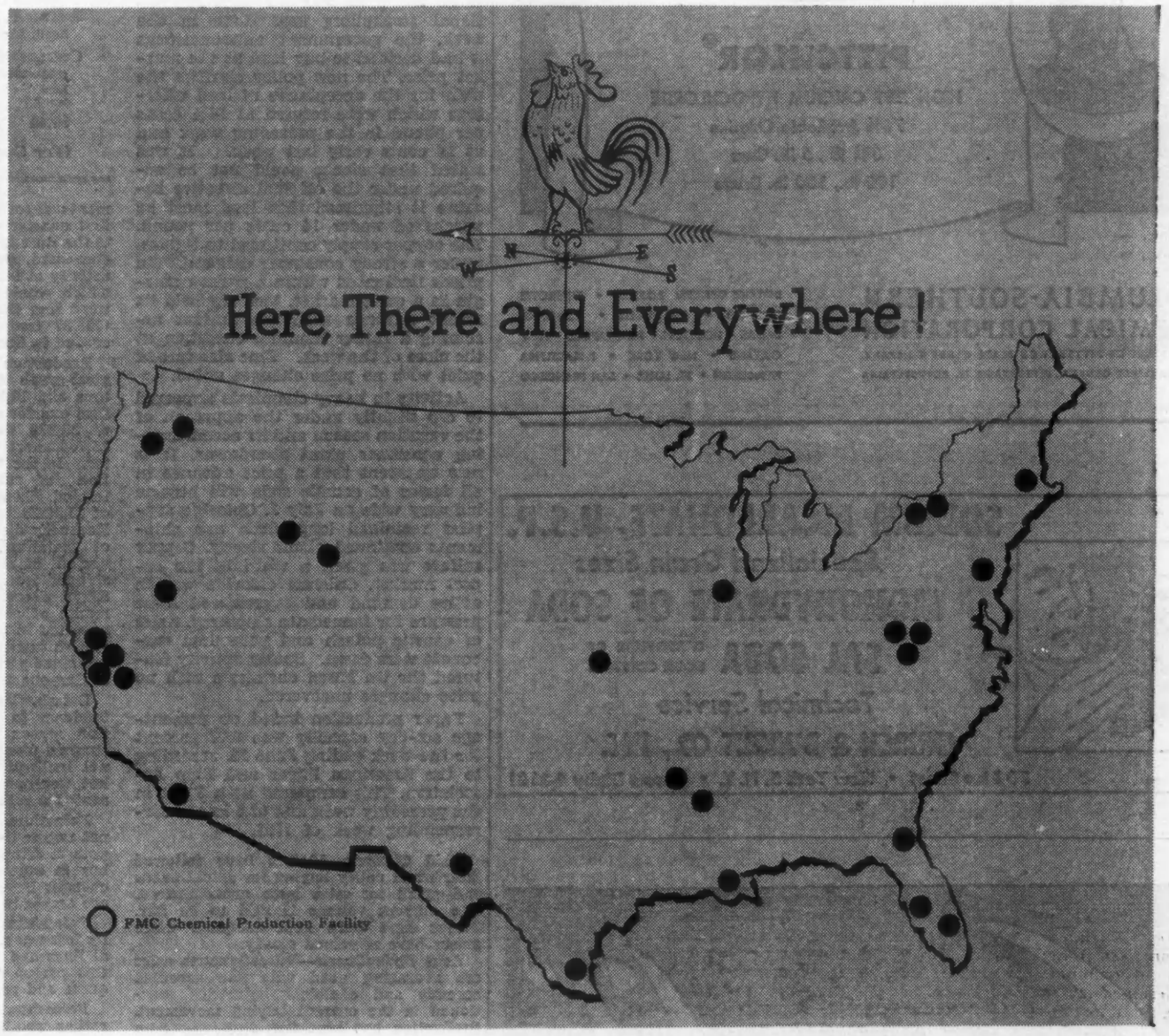
But the matter of costs is uppermost in the distributors minds, as well as most every one else. Members of the National Distribution Council met recently with top officials of the department and stressed the pressing need for more adequate information on the costs of distributive functions. They said that there is much public misunderstanding in this respect and urged the department to take steps to counteract this situation. The best the department could offer, however, was a promise to assemble information on distribution costs, but its resources would not permit it to undertake any major research programs in this field.

Government's Mobilization Plans

The government has a comprehensive manpower program already to go into effect in event of full mobilization and is also putting the finishing touches on measures for material, price and other controls—to be sent to congress, if and when needed.

The Office of Defense Mobilization drew up the manpower program on the basis of eighteen months of study and discussions with representatives of labor and management. It is based on voluntary, rather than compulsory, all-out mobilization of the labor supply, dealing with such matters as training of labor, agricultural manpower, balancing of civilian and military requirements for skilled manpower, and location of defense facilities.

FMC CHEMICALS



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Heavy Chemicals

No change could be recorded in the index last week. A fractional decline was noted in metallic lead chiefly because the price was too high for national stockpiling use. Late in the week, the government announcement it had decided to buy lead at the market price. The new policy clarifies the plan for the acceptance of lead offerings which were refused at 14¼ cents per pound in the preceding week and at 14 cents early last week. It was stated that stocks could not be acquired under the original directive because it stipulated that lead must be purchased under 14 cents per pound. The copper supply continued to tighten under a strong consumer demand. Tin prices fluctuated within a narrow margin in a quiet market. Mercury held its recent advance with the market assuming a rather nominal condition at the close of the week. Zinc also turned quiet with no price changes noted.

Activity in heavy chemicals appeared to dip slightly under the approach of the vacation season and its accompanying consumer plant shutdowns. It is now apparent that a price advance in all forms of caustic soda will become industry wide on July 1. Chlorine supplies remained long. Soda ash shipments continued about steady. Copper sulfate was given a whirl in the export market. Calcium chloride was in active demand and experienced some pressure for immediate shipment. Sales of caustic potash and potassium carbonate were down. Spotty activity featured the tin based chemicals with no price changes uncovered.

Paper production based on percentage six-day capacity was 93.7 percent for the week ending June 12, according to the American Paper and Pulp Association. This compared with 87.5R in the preceding week and 93.6 in the corresponding week of 1953.

Acid Chromic—Platers have followed their usual policy buying for actual needs and small lot sales have predominated. The current volume is said to be fair. Stocks have been kept adequate while prices have remained steady.

Acid Hydrofluoric—Miscellaneous sales are averaging good with the gasoline, ceramic and chemical industries mentioned in the current buying movement. Production has kept the supply position adequate without any unusual excess stocks.

Acid Sulfuric—Demand while good is not urgent at present. A seasonal tapering off in the inquiry for agricultural use is noted with a moderate pickup in demand from industry is reported including iron and steel.

Ammonia — Anhydrous ammonia, formerly covered in this market will be reported on in the Agricultural Chemicals market.

Ammonium Bicarbonate—Sales fair and at about the May level. Cracker bakeries are said to be showing the most interest at present. Stocks are adequate to meet demand promptly and prices are steady.

Calcium Chloride—Still experiencing a strong seasonal demand for highway maintenance. The current buying interest has put pressure on production in some quarters causing a slight delay in shipments from works.

Chlorine—Slight improvement in demand reported in some quarters due to seasonal buying for water treatment and insecticides but not enough expansion to take up the slack. The supply is still ample to meet all requirements readily.

Copper Chloride—Demand holding up well with prices steady. Shipments at present have been distined mostly to chemical plants and oil refineries and is finding a good outlet for soot control. Stocks have been kept adequate.

Copper Sulfate—An active export demand has continued to feature the market with a fair volume of business placed for South American countries particularly Brazil. There was also a good inquiry from the Far East which has not resulted in much important business to date. Industrial shipments were well sustained but the agricultural demand is spotty and not up to seasonal expectations. Prices are reported firm with stocks adequate.

Fluorspar—In the first quarter of 1954 production of fluorspar from domestic mines totaled 69,760 short tons with shipments of 58,9975 tons, the lowest shipments reported in any period since the first quarter of 1950 according to reports to the Bureau of Mines. Consumption also decreased, chiefly as a result of reduced activity at iron and steel plants. Imports, which reached an all time high in 1953, were less than in the preceding quarter (78,587 tons), but exceeded imports recorded in the first quarter of 1953.

Production and shipments of metallurgical-grade fluorspar dropped to 19,567 tons and 10,046 tons, respectively, in the first quarter of 1954 compared with output of 33,228 short tons and shipments of 25,704 short tons in the preceding quarter. In the first quarter of 1953, production of metallurgical-grade fluorspar totaled 28,006 short tons with shipments of 21,286 tons. Producers in the Illinois-Kentucky district shipped 7,217 short tons of metallurgical fluorspar in the first period of 1954 with 2,829 tons being shipped from Montana, Nevada and Utah. Slight decreases in production and shipments of acid-grade fluorspar also were reported in the first quarter, while output and shipments of ceramic-grade fluorspar remained virtually the same as in the preceding quarter.

Potash, Caustic—Sales volume showed a tendency to slow down prior to the vacation season and its accompanying consuming plant shut-down. Consumers are not inclined to increase inventories over hot weather period and the market presented a rather quiet appearance.

Potassium Carbonate—Market situation not unlike that which prevailed in caustic potash. Glass plants are not inclined to buy in excess of current wants. No price changes have been announced and stocks are ample to meet requirements.

Potassium Chlorate—No unusual activity last week. Demand is following seasonal lines and is not inclined to broaden at this period of the year. Stocks are adequate and prices firm.

Potassium Stannate — Sales followed rather spotty lines last week, although the total volume showed up fairly good. Platers were not inclined to buy beyond current wants and sales were mostly for spot shipment. Straits tin did not vary enough to affect prices and producers continued to name 68.2c. to 74.8c. per pound, freight allowed east, based on tin at 94c. per pound.

Soda Ash—Shipments have continued about steady so far this month. Production has been well adjusted to meet the current demand and the market maintains a satisfactory degree of balance. The movement for miscellaneous chemical use, including caustic soda, is around the same level as a year ago. The paper and pulp industry is said to average more favorably, while use in nonferrous metals is reported to be off slightly. It is stated that glass plant consumption is fully up to that of a year ago for equal dates.

Soda, Caustic—All of the major producers will advance the price 15c. per 100 pounds for the dry and liquid forms, come July 1. High production costs and the inability to dispose of chlorine output readily are factors contributing the market's uplift on an industry-wide scale. Demand for liquid caustic is described as good, while the call for the dry forms for domestic use has increased substantially owing to adequate storage facilities for solid and flaked.

Sodium Bicarbonate—Consumer demand is holding at the May level and has shown no important variation so far this month. Current sales are said to compare favorably with those of a year ago. Stocks are adequate, with prices steady.

Sodium Chlorate—Sales for weed-control formulations have been of satisfactory dimensions this season. Industrial demand is averaging fair in other directions. Consumers have been able to cover needs without difficulty this year as production has kept stocks in adequate supply.

Sodium Nitrite—Demand described as fair with the metal and meat-packing industries mentioned in the current buying movement. The azo dye makers have also

Price Trends

Advanced

None

Reduced

Lead, ¼c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	June 19, 1953
98.48	98.48	98.40	97.59

(*For Current Prices see page 9*)

For Late Market Developments, See Page 4

shown some attention. Supply position continued comfortable.

Sodium Stannate—Spot sales were maintained at about the same level as in the preceding week. Producers did not complain but could stand more business. The supply remained ample and the price was unchanged. Producers named 54.8c. to 60.2c. per pound freight allowed east based on Straits tin at 94c. per pound.

Sulfur—Mine shipments during April were placed at 496,190 long tons by the Bureau of Mines. March shipments were 429,199 long tons and in April last year 522,393 long tons were shipped. Apparent sales in April amounted to 493,558 long tons, compared with 403,163 in the preceding month and 521,476 in April last year. Shipments of recovered sulfur in April were 28,311 long tons, against 21,232 in March and 19,036 long tons in April, 1953. Apparent sales were 28,311 long tons in April, against 21,232 in March and 15,667 long tons in April 1953.

Tin Chemicals—Prices have remained stationary since May 10 owing to the narrow fluctuations in Straits tin which has continued around 94c. per pound for spot shipment. Demand has been a bit irregular with consumers confining operations to actual wants. One of the most interesting and useful applications of tin in chemical compounds is exemplified by the unique performance of stannic chloride in glass manufacture. Glass exposed during annealing to stannic chloride vapor not only acquires an indelible iridescence, according to the Tin Research Institute, but becomes a moderately good conductor.

Nonferrous Metals

Aluminum—May production of primary metal was placed at 250,1775,582 pounds, against a revised total of 240,867,314 in the preceding month by the Aluminum Association. The May total was an all time monthly high.

Chromite—Total imports of chromite into the United States during March rose 28 percent over February, according to the Bureau of the Census. Metallurgical and chemical grades increased 44 percent and 35 percent, respectively, while refractory grade dropped 12 percent. Southern Rhodesia was the largest importer, supplying 29 percent of the total imports, and 41 percent of all metallurgical ore. Other sources of metallurgical ore were Turkey 29 percent; New Caledonia 14 percent; Union of South Africa 12 percent, and Pakistan and the Philippines supplied the remaining 4 percent. The Philippines supplied all of the refractory grade, 19 percent of the total imports, and the Union of South Africa supplied all chemical grade ore.

Copper—Strong consumer demand for home and export continued to feature the market and hold the supply position tight. According to producers, about all the stock available for June shipment is now, under contract and it is a bit too early to book much July business. The Senate Finance Committee approved a one-year extension of the present suspension of import duties on copper. Electrolytic at the close was priced at 30c. per pound delivered Valley basis.

According to the Copper Institute, domestic producers shipped 111,005 tons of refined copper to the makers of copper and copper-alloy goods last month, against 104,579 tons in April. Refined stocks were slashed by 42,412 tons to 82,111 tons at the end of May—the lowest level since last September. The rise in deliveries was attributed to increased buying on the part of many consumers who had been working off inventories for several months. The cut in stocks reflected shipment to the strategic stockpile of large tonnages of Chilean copper accumulated in the United States.

Mine production of copper amounted to 71,459 tons last month, against 70,977 tons the previous month.

Lead—Priced frractionally lower at 14c. per pound New York and 13.80c. at St. Louis. Sellers seemed to be unanimous in attributing the decline to the failure of the government lead-buying program. At least part of the lead market's strength since late March had been ascribed to industrial buying spurred by expectations that anticipated stockpile purchasing would push lead prices higher. The General Services Administration had solicited offers of both lead and zinc in the preceding week as part of a long-range program to build the stockpile and to aid the metals mining and processing industries. Consuming demand for lead has dropped off because the government's rejections imply that the stockpilers will not pay the market price.

Mercury—Prices held their recent advance for spot material although the continued scarcity of stocks placed the market in a more less nominal condition at the close of the week with $279 to $281 the prevailing quotation. It was asserted that most consumers have been taken care of while others appear satisfied to await future developments.

Tin—Prices were unchanged last week in a relatively quiet market. Consumers appeared to have sufficient inventories to meet temporary needs and were not inclined to increase their holdings at current price levels. The market did not vary much from 93½c. to 94c. per pound for Straits tin on spot. London and Singapore closed slightly lower than the preceding week. The House Banking Committee voted to direct the Administration to continue to operate the Texas City tin smelter through June 30, 1955.

Zinc—Demand relaxed last week chiefly because of the decline in lead and confusion over the government's program regarding the stockpiling of zinc, although it was stated that part of the zinc tenders were accepted for government use. Prime western was listed at 11c. per pound at East St. Louis and at 11½c. delivered New York. Suppliers said the weakness in the lead market appeared to have resulted in a precautionary withdrawal from the market on the part of many zinc customers.

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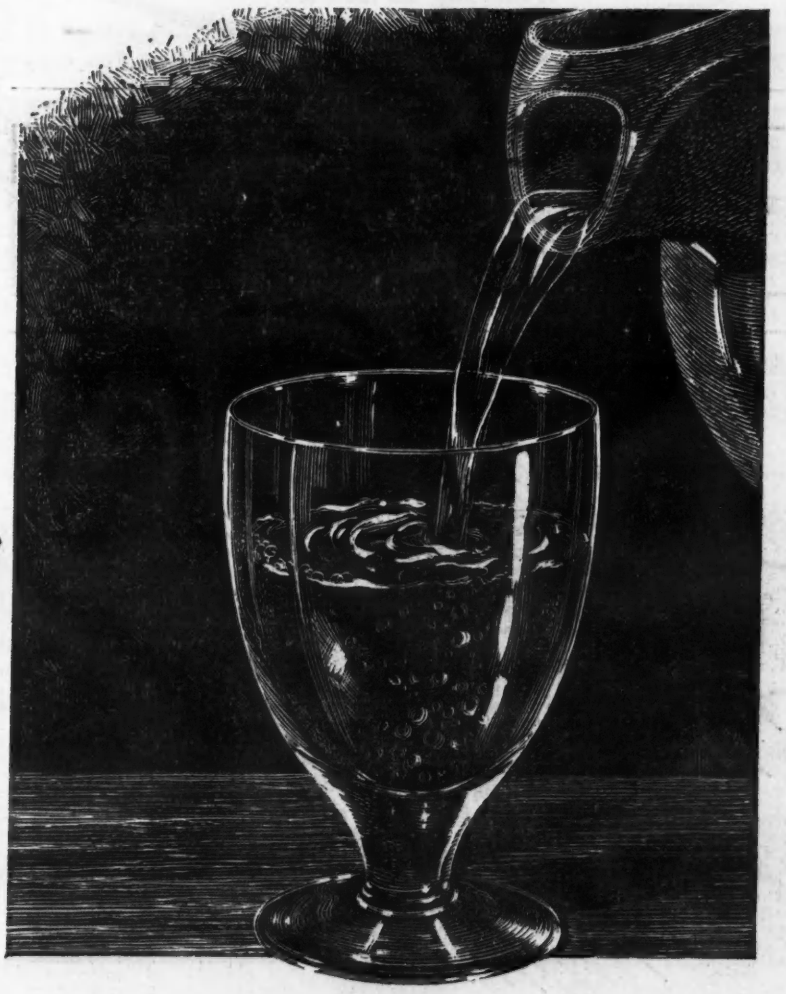

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ACS Iowa Section Medal To Go to Harley Wilhelm

Dr. Harley A. Wilhelm, associate director of the Institute for Atomic Research and research professor of chemistry at Iowa State College of Agriculture and Mechanical Arts, has won the 1954 Iowa medal of the American Chemical Society's Iowa section. The medal will be presented to Prof. Wilhelm at a banquet at the State University of Iowa, Iowa City, November 12.

The medalist is a co-inventor of the process adopted by the Manhattan Project during World War II for large-scale production of uranium metal. He has also done research leading to more than sixty other inventions connected with the atomic energy program. His contributions have added to the knowledge of rare metals and their alloys, particularly the metallurgy of uranium, thorium, zirconium and beryllium. The Iowa award, an engraved gold medal, is presented annually to an Iowa chemist or chemical engineer for meritorious achievement in either fundamental or applied chemistry and is intended to stimulate the advancement of chemical science and technology in the state.

Cyanamid Paper Chemicals Managership to Owen Cornell

American Cyanamid Company's industrial chemicals division has named Owen M. Cornell west coast manager of its paper chemicals department. He will be located in the company's consolidated office in Portland, Ore. Mr. Cornell replaces J. E. Garrison who has retired after working with Cyanamid since 1922. He will still be available on a consulting basis.

Mr. Cornell has been with Cyanamid for thirty years, and was manager of the Ohio district before his transfer. Prior to his joining the company he worked for the Kalbfleisch Corporation, which was purchased by Cyanamid in 1929.

Jefferson Describes New Chemical

Characteristics and applications of a new chemical said to possess numerous industrial uses is described in detail in a technical bulletin on morpholine published by Jefferson Chemical Company, 260 Madison avenue, New York 16. The bulletin reports that morpholine, its derivatives and compounds find employment as emulsifiers, rubber vulcanization accelerators, corrosion inhibitors, antioxidants, plasticizers, viscosity improvers, insecticides, fungicides, herbicides, bactericides, catalysts, solvents, anesthetics, dyes, pharmaceutical chemicals, and as gelling, wetting, softening, and separating agents. The bulletin describes the product as a colorless, hygroscopic liquid, with amine-like odor, derived from hydrocarbon sources.

Simon Askin Elected Head Of AFCA's New York Unit

Simon Askin, president of Heyden Chemical Corporation, was elected president of the Armed Forces Chemical Association's New York chapter at a luncheon meeting held last week at the Belmont Plaza hotel New York. Mr. Askin succeeds Maj. Gen. William N. Porter, USA retired, chairman of the board of Chemical Construction Corporation.

Carlton Bates, executive vice-president of the Solvay Process Division of Allied Chemical & Dye Corporation, was elected first vice-president. Robert Milano, president of Millmaster Chemical Corporation, was re-elected second vice-president and Walter E. Spicer, manager of the quality control department of the Lambert Pharmacal Company, was re-elected secretary-treasurer.

Directors include Willard Jacobs, chairman of the board of Niagara Alkali Corporation; S. M. Cummings, president of Pylam Products Corporation; Edwin C. Kenton, vice-president of Evans Chemetics, Inc., General Porter, Mr. Askin, Mr. Bates, Mr. Milano and Mr. Spicer.

Fulton Bag Advances Two

Fulton Bag & Cotton Mills, Atlanta, Ga., has named James A. Mundie sales supervisor at its New Orleans, La., plant and Lewis H. Merrill assistant manager of its New York office. Mr. Mundie will coordinate his activities with and assist Louis J. Even, New Orleans sales supervisor. His association with Fulton began in 1948 at its Dallas, Tex., plant and two years later he was transferred to the multiwall paper bag division in New Orleans. Mr. Merrill formerly served as sales representative. He joined Fulton in 1952.

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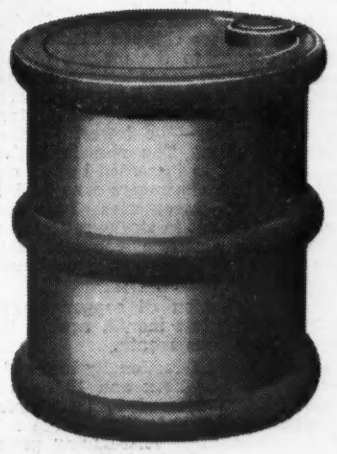

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Carbide 'Crag' Sales Chief

Dr. R. H. Wellman has been appointed assistant manager of the fine chemicals department of Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York. Dr. Wellman, who joined Carbide in 1939, had been head of the biological research division of the company. In his new post he will be responsible for the sales and market development of the firm's line of "Crag" agricultural chemicals.

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Dow Advances Stoesser, Benzol Research Chemist

Dr. Wesley C. Stoesser, a research chemist in the benzol products laboratory of Dow Chemical Company, Midland, Mich., has been advanced to the rank of research specialist. Dr. Stoesser began his career with Dow in 1928 and over the years has served in the organic laboratory, in process development, as research director of the chemical warfare plant, and in the benzol products laboratory.

Among his achievements are twenty-five patents, ten of which are being used in plant processes for p-phenylphenol, salicylaldehyde, pentachlorophenol, chlorinated diphenyloxide, tertiary-butylphenyl salicylate, 3-chlorocoumarin, bis-phenol A and malonic ester. In addition, his unpatented processes are currently being used for isolation and purification of phenylphenols from the phenol process, p-hydroxybenzaldehyde, coumarin, salol and phenetidine.

Monsanto Fills Inorganic Chemical Development Post

Monsanto Chemical Company, St. Louis, Mo., has named Clarence Barbre technical adviser in the agricultural chemical field for its inorganic chemicals division's development department. Mr. Barbre will assist in the development of plans and programs for expansion of the division's activity in agricultural chemical fields. He was formerly general superintendent of production for Monsanto's William G. Krummrich plant. Before joining the company, he was employed by General Petroleum Corporation and U. S. Industrial Chemicals Company.

ACS Eastern New York Section Picks Dr. Surrey as Its Chairman

Dr. Alexander R. Surrey, senior research chemist at the Sterling-Winthrop Research Institute, Rensselaer, N. Y., has been elected chairman of the eastern New York section of the American Chemical Society. He will serve in that position until May, 1955.

Dr. Surrey joined Winthrop Chemical Company, now Winthrop-Stearns, Inc., in 1941. He later joined the Sterling-Winthrop Research Institute.

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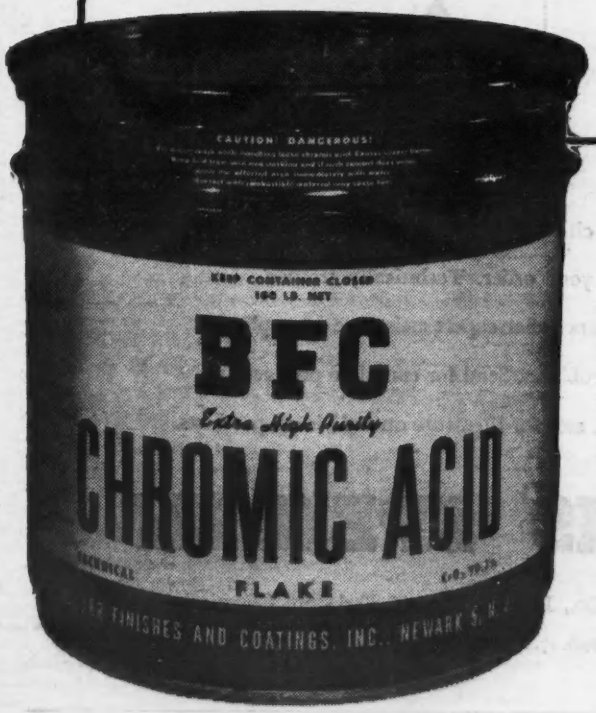

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AEC Makes Fuel Allocation For Michigan Univ. Reactor

The Atomic Energy Commission has approved the allocation of fissionable material as fuel for a nuclear reactor to be built by the University of Michigan.

The "swimming pool" type reactor will be used for the training of engineers and for research sponsored by the university and by industry. It will be part of the Michigan Memorial-Phoenix Project, which has been established with private endowments for studies of the peacetime implications and applications of atomic energy.

The reactor will be cooled and moderated with ordinary water, and will use enriched uranium fuel. The fuel elements will be suspended in a pool of water sufficiently deep to serve as a shield against the radiation produced by the reactor. Oak Ridge National Laboratory will review the reactor design and operating plans for the university. A similar "swimming pool" facility, the bulk shielding test reactor, has been in operation at Oak Ridge, Tenn., since 1952.

Air Pollution Meeting Set For Tomorrow in Chicago

Recommendations on how to remedy the Chicago area's air pollution problem will be made June 22 at a luncheon meeting of the Midwestern Air Pollution Prevention Association at 86 East Randolph street.

The report will be made by scientists from Armour Research Foundation of Illinois Institute of Technology, who are conducting a $15,000 air pollution study for the association. Primary purpose of the study is to analyze sources of the average seventy-nine tons per square mile of dustfall dumped on the city every month.

Reagents Publication Is Offered By American Cyanamid Company

American Cyanamid Company's mineral dressing department has announced publication of its latest bulletin on Cyanamid reagents, "Mineral Dressing Notes" (Bulletin Number 20).

The bulletin describes the properties and applications of various Cyanamid chemicals used in ore beneficiation plants and processes. It also contains sections describing flotation practice for various metallic ores, and a summary of flotation methods used for treatment of various non-metallic minerals. Tables summarizing usage and handling of various flotation chemicals, and a selected flotation bibliography are also included. Copies are available at no charge through the mineral dressing department of Cyanamid at 30 Rockefeller Plaza, New York 20.

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Agricultural Chemicals

Index remained steady last week at 111.39. The markets for the basic fertilizer chemicals were relatively quiet with the 1953-54 season about over. Many leading trade interests were away attending the National Fertilizer Convention in West Virginia and did not return until late in the interval. There was no unusual rush to place potash contracts regardless of the low prices named for June. The lower quotations for both grades of ammonium sulfate did not attract unusual attention. There seems to be no doubt that the inroads made into consumption of ammonium sulfate by the direct application of anhydrous ammonia are severe and are giving producers considerable concern. Normal superphosphate moved along seasonal lines while triple held its usual tight supply position which is expected to ease in the late summer months. The lower prices for nitrogen solutions effective July 1 should stimulate buying interest in those materials. Ammonium nitrate production was still behind demand in several areas.

There were no price changes in packing-house byproducts. The recent advance in the soybean meal market checked selling pressure for dried blood and tankage. Domestic steamed bone meal was pegged at its late decline. July was the nearest shipment offered for castor pomace. In pesticides, activated sabadilla ground with lime was priced lower.

Price Trends

Advanced
None

Reduced
Sabadilla seed, activated and ground with lime, 5c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 19, 1953
111.39	111.39	112.95	111.30

(For Current Prices see page 9)

Fertilizer Materials

Ammonia—Prices established in July 1, 1953, on agricultural grade of anhydrous ammonia ranged at various points from $85 to $88 per ton, f.o.b. producing plant. These prices have prevailed to date, but recent months, and more particularly in recent weeks, the practice of equalizing freight has become increasingly widespread.

Accordingly, beginning with this issue, OPD published prices will show anhydrous ammonia, agricultural grade, at $85 to $88 per ton, freight equalized, since there is so much material moves on that basis. Not all producers are fully equalizing freight, some only partially up to limited amounts, and others are equalizing if, and as, they find it competitively necessary. This, of course, amounts to much the same as a price reduction by the manufacturer on the item, for it cuts down his profit per ton.

Dried Blood—Continued to hold at $8 per unit of ammonia here and in Chicago. Trading was not very active and an advance recently in the soybean meal market has tended to check selling pressure.

Fish Meal—Menhaden supply remained tight with the production season off to a rather poor start owing to weather conditions. Demand remained active enough to hold the market firm.

Phosphate Rock—Supply position has shown improvement, according to trade reports while market retained a firm position. Domestic demand was described as fair for contract shipments while the export movement was good, particularly to North Europe. A small shipment was made to Austria and for the first time one to Denmark.

Potassium Muriate—Moderate buying interest was reported last week with some consumers taking advantage of the low prices listed for contracts placed prior to July 1.

The domestic production of marketable potassium salts again reached a new high in 1953 at 3,266,420 tons for an equivalent approximately of 1,911,891 tons of K_2O, increasing more than 13 percent above the 1952 production, according to reports by producers to the Bureau of Mines. Sales and apparent consumption of potassium salts both increased in 1953, 8 percent and 4 percent, respectively, as compared to 1952. Stocks in producers' hands at the end of 1953, more than double the 1952 figure, were 470,051 short tons with a K_2O content of 278,508 tons.

Both imports and exports of potash materials were less in 1953. Imports totaled 253,113 tons (130,362 tons K_2O) compared with 357,437 tons (188,441 tons K_2O) in 1952. West Germany, East Germany, France, Spain and Chile, respectively, supplied 34, 21, 20, 17 and 5 percent of the total United States imports of potash. Exports of potash materials totaled 88,208 tons, 13 percent less than in 1952 with the major portion going to countries in the estern Hemisphere.

Sodium Nitrate—Sales holding up well in the northern areas for top and side dressing. Market steady, with stocks adequate to meet requirements.

Superphosphate—Normal moved along seasonal lines with no scarcity of stocks. The contract period starts July 1 and so far there has been no intimation of a price change. Triple remained in tight supply, with new production expected to ease the situation during the late summer months.

Tankage—Selling pressure was removed last week and the market was allowed to remain at its former level. The local price was $7.75 per unit of ammonia and Chicago named $8.

Los Angeles Market

Los Angeles.—The local market reflected light interest and activity over the past week. Spring business, while being spread out over a longer period, compared very favorably with past seasons in volume of material moved. No price changed reported or anticipated on inorganic materials. The domestic fish meal market was easier with demand slow.

Ruling prices were:—Ammonium nitrate—$90.50 per ton, domestic, f.o.b. Los Angeles. $89.84 per ton, Canadian material, f.o.b. Los Angeles.

Ammonium phosphate—$80.14 per ton in bags, 16 20 grade, f.o.b. Los Angeles. $107.64 per ton in bags, 11 48 grade, f.o.b. Los Angeles. Both Canadian material.

Ammonium sulfate—$55.93 per ton in bags, domestic, f.o.b. Los Angeles. $3 less in bulk. Canadian material same.

Blood meal—$6.50 per unit of ammonia at source.

Calcium nitrate—$48 per ton, 15½ percent nitrogen, c.i.f., Los Angeles Harbor.

Castor pomace—$32-$35 per ton, f.o.b. Los Angeles.

Fish meals—$2.35-$2.40 per unit of protein, domestic, sacks included, f.o.b. San Pedro. $2.20-$2.25 per unit of protein, imported mixed meal, sacks included, ex-dock, Pacific Coast.

Sodium nitrate—$54.50 per ton in 100-pound bags, f.o b. Los Angeles. $49.50 per ton in bulk.

Superphosphate—$25.20 per ton in bulk, f.o.b. Los Angeles $4 additional for bags. Ammoniated—$31 per ton in bulk, 3/16 grade, f.o.b. Los Angeles. $4 extra for bags. Triple—$68.50-$72 per ton in bulk, 47 percent a.p.a., f.o.b. Los Angeles.

Pesticides

Supply conditions in DDT have tightened owing to the recent heavy purchases for export. It is understood that the United Nations will be in the market shortly for 1,300,000 pounds of 75 percent DDT wettable powder for August-November shipment, the material to be used to control malarial mosquitos in foreign countries. The domestic market is firm, with demand improving but too early in the season to be of rush character. Cotton dust 3-5-40 is priced at 8½c. per pound. Demand has fallen off slightly as the recent drought has forced the replanting of cotton in some of the southwestern states. BHC has not shown much important change. There are producers who are getting a fairly steady demand from formulators, while others report inquiry quiet. Sales of aldrin and dieldrin are running ahead of a year ago without affecting a favorable supply position. Rotenone (cube root) has remained tight and buyers have experienced difficulty in leveling off their requirements. Sabadilla seed ground with lime is priced lower and is now in a more favorable competitive position, the current price for spot shipment is 30c. to 32c. per pound for ton lots and less than ton lots.

*Fertilizer Tag Sales: April**

	Equivalent tons April 1954	April 1953	July-Apr. 1953-54
N. Carolina	454,000	456,000	1,575,000
S. Carolina	107,000	148,000	883,000
Georgia	396,000	365,000	1,036,000
Florida	132,000	84,000	1,101,000
Alabama	292,000	236,000	939,000
Tennessee	96,000	115,000	297,000
Arkansas	89,000	93,000	307,000
Louisiana	64,000	68,000	270,000
Texas	73,000	78,000	468,000
Oklahoma	14,000	12,000	127,000
Total	1,717,000	1,677,000	7,012,000

*Information furnished by National Fertilizer Assn.

For Late Market Developments, See Page 4

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"Maneb" has previously been known by its chemical name, manganese ethylene bis-dithiocarbamate, and also as manganese EBD, MnEBDm and on occasion, as MEB. The name "Maneb" refers to the pure chemical and a technical grade shall indicate the percentage of "Maneb" present. A wettable powder formulation designated duPont "Manzate" fungicide containing 70 percent "Maneb" is commercially available. "Manzate" is a registered trademark of E. I. duPont de Nemours & Co., Wilmington, Del.

Pacific Guano Appoints Dr. Bahme

Pacific Guano Company, Berkeley, Calif., has appointed Dr. R. B. Bahme manager of its agricultural chemicals department. Dr. Bahme was formerly with the Grasselli chemicals department of E. I. duPont de Nemours & Co., Wilmington, Del.

N.E. Chemical Club Golfs June 23

The Chemical Club of New England will hold its annual golf outing June 23 at Pawtucket Golf Club, Pawtucket, R. I. John E. Upham of Hercules Powder Company is chairman of the entertainment committee and is being aided in the arrangements for the function by Thomas J. Desmond of Grassell chemicals department, E. I. duPont de Nemours & Co., and William B. Sinclair of Celanese Corporation of America.

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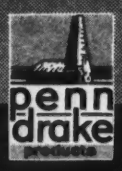

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Petroleum Derivatives

The market for petroleum derivatives exhibited most of the signs of a healthy recovery from the slackening that affected it during the first quarter of the year. Reports on business volume for most solvents and diluents indicated that these materials were moving quite well in comparison with last year, although they were by no means straining manufacturers ability to supply their customers. One maker of partial aromatics found that sales in the second quarter exceeded those of the same period last year, and although others were not so optimistic, they agreed that the picture had brightened perceptibly in the past thirty days.

Sales of toluol were reported continuing at a very good pace over the past week as industrial consumers maintained an active demand. This good rate of demand helped maintain a pretty close balance between available material and consumers requirements, but few if any acute shortages were encountered. Demands for xylol were reported to be edging forward slightly. This market, however, was, in general, fairly well supplied. Prices for both toluol and xylol were steady at existing levels.

Aliphatics were offered in ample amounts, and producers covered their orders without difficulty. Sales volume for liquefied petroleum gases continued at a seasonal ebb, following the trend noted through the month. The lag in demand was not in excess of the usual amounts for the season, and sales were expected to pick up in the eastern states during July because of increased consumption in resort areas. The tight situation in crude scale and fully refined grades of waxes was without change. Prices for these materials and for microcrystalline waxes were firm. The petroleum sulfonate market was steady and without particular feature, as prices held at earlier levels.

Solvents and Diluents

Cleaners Naphtha—Sales of this material have held up pretty well during the month, trade sources stated. Demand was easily filled and most producers could supply additional shipments, if called upon to do so. Prices were unchanged from those previously reported.

Mineral Spirits — The second quarter has witnessed a continuance of the upward swing in sales volume for this material, according to most manufacturers. The present outlook appeared quite satisfactory to those in the trade, and most had expectations of a continued good demand. The present high rate of new housing starts indicated the development of an increasing market in the home painting field which would have its effect on this material over the coming months. No prices were changed over the past week.

Partial Aromatics—Reports on business volume for these materials were mixed last week, with some producers reporting very favorable sales, while others were not entirely satisfied. Most agreed that the outlook was bright, however, and expected demand to be sustained at its present levels or to increase. One producer reported an increase in sales interest in some lines following the removal of the unpleasant odor formerly present in the material. When used in lacquers and paints for non-industrial purposes, material was felt to have a considerably better chance of acceptance if it was without any strong or disagreeable odor. Prices were maintained over the past week without change, and were expected to remain steady during the foreseeable future.

Toluol — Sales were reported as continuing at a very good pace over the past week as industrial consumers maintained an active demand. The market was in general able to supply those requiring material with their needs without difficulty, and the present supply situation was felt to be a reasonably well balanced one. A number of makers found that they were supplying a larger number of customers than they had been a few months ago when they were forced to requisition their supplies. Government requirements remained on a par with those of the months just past.

VM & P Naphtha—The present supply situation was one quite favorable to the consumer, as stocks were easily adequate for current needs. This was reported to be partly by reason of a good rate of production and partly because of the present slightly lessened industrial demand. Prices were steady and were not expected to shift in the coming weeks.

Xylol—The market for xylol was without significant change in the past week. Consumer requirements were such as to move the greater part of current production, but not sufficient to strain suppliers' present capacities. Industrial demand were seen to be edging forward in the past fortnight by some in the trade.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	June 19, 1953
104.42	104.42	104.75	104.40

(For Current Prices see page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended June 5 totaled 278,549,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 279,256,000 barrels for the preceding week, this represents a decrease of 707,000 barrels comprising a decrease of 907,000 barrels in stocks of domestic crude and an increase of 197,000 barrels in stocks of foreign crude.

Lighter Fractions

LPG's—Sales volume continued at its seasonal ebb over the past week, following the trend noted throughout the month. The lag in demand was not in excess of the usual amounts, however, according to the trade sources. Prices remained depressed by reason of the large amounts of material available on the spot market. Sales were expected to pick up in the eastern section of the country during July because of increased consumption in resort areas.

Waxes

Paraffin—Prices for crude scale and for fully refined grades remained steady over the past week. Manufacturers reported that the tight situation in these materials, particularly crude scale, was without change and that their production was pretty well committed. The summer, with its vacation shut downs and layoffs was expected to produce a slightly quieter market, but not any overall change in the situation.

Microcrystalline — The price structure for material of all specifications was considered quite firm by trade sources. Orders were felt to be well up to levels of the past weeks, and demand from consuming industries showed no prospect of falling off in the weeks ahead.

Miscellaneous

Naphthenic Acid—Prices ranged from 11¼c. per pound for this material, in tankcars, f.o.b. works, with the drum price 2c. per pound higher.

Petroleum Sulfonate—Sales of oil soluble petroleum sulfonates were made at unchanged quotations during the past week. Producers stated that no unusual demands, as to quantity, had been encountered, and that shipments were going out on schedule. Demand has been quite good, and at the same time steady, and no significant change in either direction was expected in the trade.

Los Angeles Petroleum Market

Los Angeles.—Solvents and diluents remained in good supply with demand following a normal seasonal pattern. One major producer announced a 1c. per gallon increase, tankcars, effective June 16, and it is expected other manufacturers will follow this in the near future despite the easy supply position of materials.

Demand held at a good level for butane directly in the basin area with stocks limited; postings were firm and unchanged at 6.4c. per gallon, tankcars, f.o.b. Los Angeles. Ample supplies of propane were reported with interest lagging on the local market and throughout the valley areas; postings were unchanged at 5.9c. per gallon, tankcars, f.o.b. Los Angeles, although such listings were not considered firm.

For Late Market Developments, See Page 4

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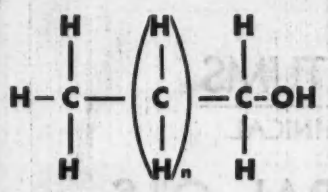

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Industrial Organic Chemicals

Price movements in this market last week were all upward. Vinyl acetate monomer moved up 1 cent per pound across the board. Carbon tetrachloride was advanced ¼ cent per pound, and perchloroethylene underwent certain price adjustments amounting to ¼ cent per pound.

There were n aliphatic industrial organic chemicals which showed any price weakening as of last week. Even on those on which heretofore there had been some rumors of a softening in prices in certain distributive channels, showed a firmer tone that caused the rumors to vanish.

It appeared that the price reductions occurring recently, and previously reported, on certain mono and polyhydric alcohols had fairly well stabilized the alcohol and polyol markets, causing them to settle down to a stable level, probably for the Summer months. Business on the other hand was showing a steady and gradual increase, and this was a strong stabilizing price factor.

Aldehydes were in good demand, amine surface active agents moved in what was described as fair volume, under last year, and in a market which was characterized by many competitive products. They held firm in price, however.

Ketone and ester solvents were steady with no more than the usual interplay between them. Overall demand was felt to be a bit stronger and with the improvement in business generally, this trend was felt likely to continue by virute of increased demand for industrial finishes for metal fabricated items. Solvent supplies were generally abundant, except for such items as amyl acetate where natural material was likely to be perpetually scarce and synthetic production moved promptly direct from production into consumption channels.

Ether solvents were, as usual, in lower physical volume demand, as contrasted with the major esters and ketones, but held their own well in relation to sales in general, and presented no inventory problems. Demand for glacial acetic acid lagged a bit because of slow activity in the textile field. This made stocks quite plentiful.

On items in which the price had been reduced within the last two months, definitely increased business volume was experienced. It was felt that three main factors were operative in this. First was the factor that some buyers had undoubtedly held back orders in expectation of the reduction, second, was the possibly wider usage economically growing out of a lower price on the material, and third, was the general gradual pick-up in business.

Acetaldehyde—Large volume demand for this item was said to be well sustained. There were abundant supplies, however, from which prompt shipment could be made. Prices at the level of 10½c. per pound in tankcars on a freight equalized basis were firm and unchanged.

Alcohol—Ethanol demand was such as to maintain the market in a firm price position. There was abundant alcohol supplies available, and the industry had the capacity to handle a much larger volume, but business was felt to be fairly good. The result was that rumors of price shading had disappeared and trading appeared to be conducted on a sound price pattern. Outlook for the Summer months was said to be better than first quarter views had expected.

Amyl Acetate—The lower cost industrial solvents were moving well. Natural material was scarce and expected to remain so. Synthetic production took up the slack, and was moving to consuming industries as fast as it could be produced. This was expected to continue throughout the Summer, and no price changes could be seen in the immediate future.

Butyl Acetate—Demand for this ester was such as to keep production moving steadily into consuming channels. Ester solvents in general were apparently in an improving market situation, and butyl important among them. Prices were unchanged from levels which have long prevailed. The market for this and competitive solvents was such as to preclude any immediate price rise, while costs were of an order which would discourage price reduction.

Butyl Alcohol—Natural and synthetic butanol were in continued good demand, buying interest recently having been on the upgrade. Prices of both source materials were identical, and current levels were expected to hold for the weeks immediately ahead. There was an adequate supply available for prompt shipment, but no inventory problem was experienced with respect to disposal of production.

Butyl Lactate—This solvent was in its usual steady market position. Compared to the major esters, volume on lactate was not too large, but was holding its own well. There was no change from the 33c. per pound quoted on tankcars over recent months, and none expected.

Carbon Tetrachloride—Higher price schedules, up ¼c. per pound, were to be put into effect as of July 1 on contract, and immediately on spot it was announced last week. Technical carbon tetrachloride in tankcar quantities East of the Rocky Mountains will be priced at 8½c. per pound, and West of the Rockies at 9c. Drum carlot quantities will be priced at 9½c. per pound in the East and 10c. in the West. Less than carlot quantities were priced at 11¼c. in the East and 11¾c. in the West, f.o.b. stockpoints. The tankcar and carlot prices were on a freight allowed basis.

The price change came at a time when the demand for carbon tetrachloride was not at its peak season. However, the upward price adjustment was made on the basis of sound cost studies and was part of an upward movement in chlorinated organic solvents.

Dipropylene Glycol—Sales on this polyol were said to be holding up to a satisfactory level. Prices were stable, but so low that there was hardly any profit left for the manufacturer.

Ethanolamines — Mono-,d-, and triethanolamine business was steady, and while producers would like to see still better volume, business was generally regarded as not bad, because like other organic chemicals there were indications of a slight upward trend in business. The bad part of ethanolamine business, like that of other ethylene derivatives, was that they have been priced so low under competitive and large supply influences, to a point where profit margins were inordinately low. It appeared, however, that this price pattern would likely prevail for the months immediately ahead.

Ether—Ethyl ether for use in industrial solvent end-uses was said to be moving in a steady market with a well sustained demand. Supplies were ample to take care of all calls, but presented no inventory problems. Prices were firm and unchanged.

Ethyl Acetate—Demand for this item, whether natural or synthetic, was felt to be fair in volume and well sustained. Producers looked for continued steady business over the coming months. Prices were firmly held. Supplies were ample so that consumers tended to do mostly hand to mouth buying, without tying money up in substantial inventories.

Ethylene Glycol—This item was reported as moving fairly well so far as business volume was concerned. Buyers were showing more interest after the price reduction effected some weeks ago, making purchases under the quite reasonable assumption that prices would not be reduced lower. However, it should not be inferred from this that business volume was on its way back to last year's levels, but it was improved. The trouble with glycol busi-

This market reports on industrial aliphatic organic chemicals. Reports on industrial aromatic organics may be found in the coal chemicals market, while reports on fine and rare organic chemicals appear in the drugs, fine chemicals, botanicals market.

Price Trends

Advanced

Carbon tetrachloride, ¼c. per lb.
Perchloroethylene, ¼c. per lb.
Vinyl acetate, monomer, 1c. per lb.

Reduced

None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month
131.93	131.91	132.07

(*For Current Prices see page* 9)

For Late Market Developments, See Page 4

ness right now, so far as makers were concerned was that under the influence of over expanded production facilities and the resulting excess of supply, prices had been reduced to a point where, regardless of quantity, profit margins were so low that there was little money to be made on the item.

Formaldehyde—Zone 1 prices in tankcars were steady at 3.75c. per pound for the inhibited and 3.45c. for the methanol free material. Drum carlots were priced in Zone 1 at 6.2c. and less than carlot drum quantities at 6.9c. on inhibited. An effort made some time ago to raise the price of inhibited .02c. per pound because of the methanol in it, did not stick, and price patterns held to levels quoted above.

Demand was said to be fair, for which there was prompt delivery from quite adequate stocks. No price adjustments could be foreseen in the immediate future. Zone 2 tankcar prices were firm at 4.2c. on inhibited and 3.95c. on methanol-free.

Furfural—Demand from such outlets as the manufacture of adiponitrile for nylon production, resin manufacture, and in the oil refining industry has held up well. Uses in butadiene extraction for synthetic rubber manufacture were considerably off in recent months, in line with rubber, but were showing improvement and expected to improve still further with disposal of government owned synthetic rubber plants. Price levels were unchanged. Supplies were quite adequate.

Glycerine—Price stability has become a more generally characteristic of the refined glycerine market with the advent of a greater proportion of synthetic in the overall glycerine production. Such stability is natural to manufactured products as contrasted with production of material from natural commodity type raw materials. Currently, the market on natural glycerine refiners are depending upon their own crudes, refining these, and letting it go at that, because world markets are taking crudes at levels which the American market cannot afford to pay, based on refined prices.

This shortage of imported crude, however, worked no particular hardship on the glycerine consumers in this country because of the quantity of synthetic available to supplement natural refined glycerine supplies. Accordingly glycerine stocks currently were considered as comfortable. Demand was good, though not up to peak levels, and was being supplied from ample stocks.

Methacrylic Acid—Glacial 98 percent acid moved in limited volume under a firm price pattern of 54½c. per pound in truckloads, f.o.b. producing plant. Smaller lots were quoted at 55c. on the same basis. Supplies were described as adequate.

Methanol—An upturn in business volume was reported on this item over recent weeks, which was still making itself evident. It was as yet a bit uncertain as to whether or not the increased buying interest was the result of consumers having held back on purchasing because of an expected price reduction, or whether the price reduction effected recently had actually stimulated wider volume usage. The general feeling was that both factors were at work, together with an imporvement in business generally. Steady good volume business was expected for the third quarter.

Methyl Ethyl Ketone — There was no significant change in the market on this large volume ketone. Prices were certainly stable and there was no change looked for in the third quarter. Business volume continued good, but could be a lot better, especially in the industrial finishes field. Some improvement from this direction was soon expected.

Methyl Isobutyl Ketone — This solvent was in steady demand, with the general impression being that in recent weeks there had been a better buying interest in line with improvements in solvents generally. Supplies were quite ample to take care of the immediate demands of industry with prompt shipment. Price patterns which have long prevailed were felt likely to continue for the months immediately ahead.

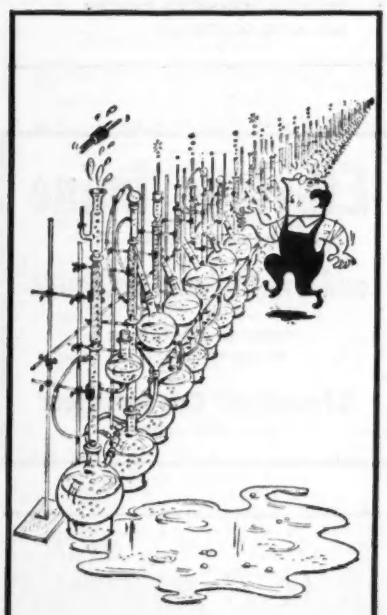
Methylamines—Producers described the demand for mono-, di-, and trimethylamines as being at a fairly good level. Supplies were quite adequate for prompt shipment. Certainly, in view of plant capacity, larger volume business would be welcome, but the feeling was that consumption was not too unsatisfactory since these amines were moving not much below their normal activity. Price patterns which have long prevailed were expected to continue.

Methylene Chloride—Supply and demand factors were said to be just about as they had been over recent months, although some quarters reported the impression that there was some slight improvement in the market situation giving it a firmer tone. Prices held to former levels. Whether recent upward adjustments in some chlorinated organics would extend to this item was a matter for conjecture, but considered doubtful.

Paraformaldehyde — Business volume was said to be holding up well on this item. Prices were stable following the recent price reduction which was effected in conjunction with lower methanol and formaldehyde prices. No further changes were expected in the immediate future.

Pentaerythritol—There was no significantly reported change in the demand and supply relationship on this material or the di- and tri-isomers as a result of recent price declines. The price change in PE was made somewhat under the influence of lower prices on partially competitive polyols, but primarily as a result of reduced raw material costs being passed on to PE consumers. Supplies were adequate to take care of all immediate demand.

Perchloroethylene — Prices advanced ¼c. per pound in some quarters on this item, effective July 1 on contract and immediately on spot. This brought tankcars to 9¾c. per pound delivered in the East. Carlot drum quantities to distributers presented a somewhat confused picture, with less than carlot drum quantity prices still more confused. Prices were quoted in



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drum carlot and less carlot quantities in some cases on a per drum basis.

Quotations seemed to range on carlots from $76 to $85 per drum. This range, however, appeared to be not so much a spread on the price of the material itself, as it was a difference in the pounds per drum. In general, the carlot price in drums figured to be the equivalent of around 12c. to 12¼c. per pound.

Some makers sold perchloroethylene on a somewhat different basis, and quoted carlots or truckloads on a freight allowed basis to distributors at 11¾c. per pound, unchanged from levels which have prevailed for several months. Also unchanged were less than carlot quantities ex warehouse at 13½c. quoted by some makers.

Trichloroethylene—Prices on this item held firmly to levels of 10¼c. per pound in tankcars on a freight equalized basis, or at 11c. delivered. There was no indication of any price adjustments likely to develop in the immmediate future. Demand was said to be well sustained at levels definitely under those of last year, but still good. Some end-uses were down more than others, metal degreasing operations off in proportion to the decrease in metal parts farbrication.

Vinyl Acetate—This monomer advanced 1c. per pound in price last week, in the East. Under the new price schedule, tankcars delivered in the East were priced at 16½c. per pound. Tanktrucks were priced at 17½c. Drum carlot quantities became 18½c. per pound and less than carlot drum quantities were priced at 19½c.

In the West, where there had heretofore been a differential of 2c. per pound over Eastern prices, the differential was reduced to 1c. per pound by reason of this price advance in the East, while Western prices remained unchanged. Demand was reported as holding up well, and supplies were regarded as adequate.

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Atlantic Refining Company, Philadelphia, has appointed Donald R. Longman manager of market research. Mr. Longman most recently served as executive director of the marketing research division of Dun & Bradstreet, New York. He also served on the War Production Board during World War II.

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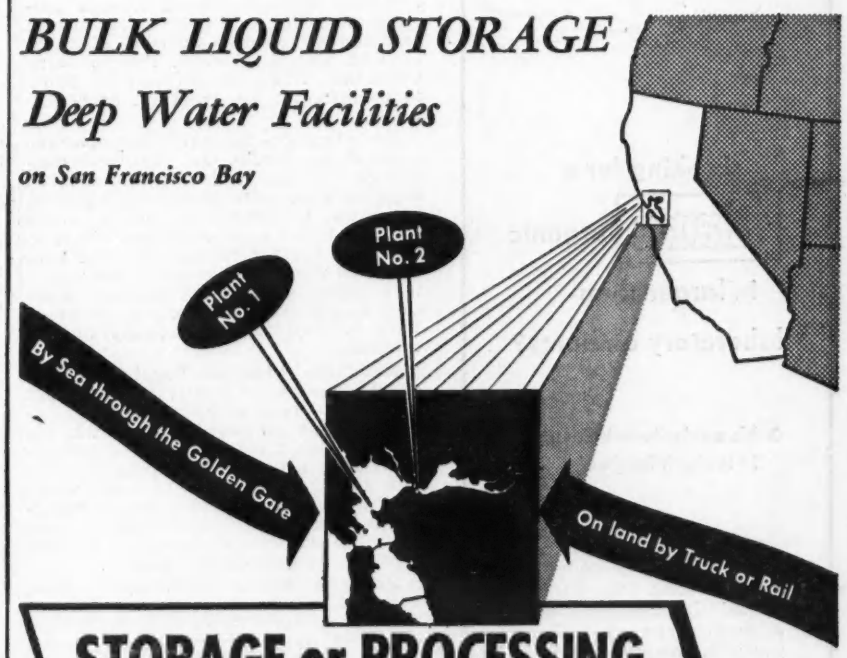

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Obituaries

Clarence W. Clark

Clarence W. Clark, treasurer-emeritus of the Federation of Paint and Varnish Production Clubs, and a former employee of E. I. duPont de Nemours & Co., Wilmington, Del., died June 14 in Hampton, N. H.

Mr. Clark entered the employ of duPont in 1923 and worked successively at plants in Everett, Mass.; Wilmington, Fort Madison, Iowa, and Chicago. He served as treasurer of the federation for ten years. In 1951, at the time of his retirement from active business, Mr. Clark was unanimously elected an honorary member of the federation.

John W. Stanley

John W. Stanley, vice-president of John T. Stanley Soap Company, New York, died June 13 in that city. He was eighty-three years old. Mr. Stanley was the son of the company's founder, John T. Stanley, who started the firm in 1865.

Stephen W. Stanton

Stephen W. Stanton, vice-president in charge of sales for Natural Products Refining Company, Jersey City, N. J., died June 14 in New Milford, N. J. He was sixty years old. Mr. Stanton had been sales manager for Natural Products since 1915.

Harold S. Clemens, retired director of production for E. I. duPont de Nemours & Co., Wilmington, Del., died June 16 in Cape Cod, Mass. He was fifty-six years old. Since 1950, Mr. Clemens had been in charge of production at duPont's fabric plants in Newburgh, N. Y., and Fairfield, Conn.

Edwin W. Gableman, formerly in the public relations department of Sun Oil Company, Philadelphia, died June 10 in Washington, D. C. He was sixty-eight years old.

Dr. Leo T. Hoyt, a researcher who did extensive work to increase the nutritional value of foods through soil fertilization, died June 16 in Roseville, Ill. He was fifty-eight years old.

Frank T. Kimball, a partner in Ted Bates & Co., New York, and head of its science division, died June 14 in South Norwalk, Conn. He was fifty-seven years old.

James O. Lewis, a petroleum geologist and partner in Petroleum Consultants, died June 15 in Houston, Tex. He was sixty-eight years old. Mr. Lewis was at one time chief consultant for the Bureau of Mines.

Joseph J. O'Neill, paint technologist for Goodyear Tire & Rubber Company, Akron, Ohio, died May 29 in Folsom, Pa. He was thirty-five years old. Mr. O'Neill joined Goodyear in 1950 and a year later was named head of a new paint development laboratory in the firm's chemical division.

Frederick C. A. Schaefer, a trustee of the Brooklyn, N. Y., College of Pharmacy and a retired pharmacist, died June 15 in Brooklyn. He was eighty-two years old.

Wendell S. Still, founder of Still Oil Company, died June 16 in Selden, N. Y. He was fifty-eight years old.

How "Doc Barrett" adds flex appeal to vinyls

Belts and baby pants, shower curtains and window drapes, garden hose and raincoats—these are among the thousands of every-day products made of vinyls. Among today's most popular synthetic materials, vinyls got off to a slow start. Problem: Lack of flexibility met with customer resistance. Solution: Phthalate plasticizers, which impart to vinyls the flex appeal (and commercial success) they enjoy today.

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"ELASTEX" 10-P Plasticizer (DIOP)
"ELASTEX" 80-P Plasticizer (Dicapryl Phthalate)
"ELASTEX" DCHP Plasticizer
DIBUTYL PHTHALATE

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Coal Chemicals

Price patterns prevailing in the closing weeks of the second quarter were firm and showed no inclination to fluctuate. Demand for coaltar chemical products and their derivatives was generally reported as good. Some intermediates were described as slow, particularly those going into dyestuffs and textile end-uses, but this market was showing a recent trend toward improvement.

Tar acids moved well, with cresylics and natural phenol being shipped into consuming industrial channels about as fast as it was made. On tar acids a comfortable balance between supply and demand was currently being enjoyed. There were no accumulating inventories, and at the same time there was no build-up of back orders. Tar bases, on the other hand were still slow.

Aromatic solvents were regarded as being slightly on the short side of an even balance. Established accounts were able to get their normal quotas of benzene, but if a sudden need arose for a few extra tankcars, some difficulty was experienced in acquiring it. Petroleum sources on benzol, but more particularly on toluol and xylol tended to take up the slack in coaltar source supplies.

Naphthalene was still somewhat long, despite a fair demand from the alkyd resin industry for phthalic anhydride. Imported hot pressed naphthalene demanded prices sufficiently high that there was little trading. This favored the domestic product.

Steel output during the week ended June 19 was scheduled at the rate of 73.5 percent of rated theoretical capacity, according to the American Iron and Steel Institute. This was equivalent to the production of 1,752,000 tons of steel ingots and castings, compared with actual output the previous week of 1,746,000 tons, 1,712,000 tons one month ago, and 2,183,000 tons the corresponding week of last year.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 19, 1953
114.56	114.56	114.56	114.10

(*For Current Prices see page 9*)

Basic Products

Benzol—The tone of this market was stronger due in large part to demand being in close balance with supply. It could not be said that benzol was tight, but the supply picture was such that if an additional few tankcars were suddenly needed, considerable difficulty would be experienced in finding them.

There were ample reasons for this situation, chief of which has been the reduced operations of the steel industry over recent months, curtailment of petroleum production in some quarters because of lack of interest in producing high cost petroleum material and having to sell it at coaltar benzol prices, and at the same time the current increase in demand from consuming industry because in many benzol derivatives, business was reported as getting better. Consumer inventories were said to be lower which helped to make current demand stronger.

In certain areas there was available petroleum source material at the coaltar price of 40c. per gallon, but in other areas petroleum benzol necessary to take up any slack in availability of coaltar source material could be had only at higher prices.

Cokeoven production in April of this year on all grades of benzol other than motor grade, amounted to 10,929,778 gallons, according to the Bureau of Mines. Last year the April figure stood at 16,428,948 gallons. This brought the total cokeoven so far this year to 48,813,585 gallons as against 62,031,654 gallons during the corresponding period of 1953.

Coaltar—Resale material by tar distillers was amply available and moved to roofers and other consuming industries in a steady volume under a firm price pattern. Crude coaltar production by cokeoven operators was reported by the Bureau of Mines as amounting to 56,536,505 gallons in April as compared with 61,681,960 gallons in March and 68,173,030 gallons in April of last year. Output so far this year amounted to 242,771,426 gallons as against the 270,435,231 gallons turned out during the corresponding period of last year.

Of the April production, 14,027,092 gallons was topped or distilled off, 9.2 percent from the previous month's figure, while the amount of tar burned as fuel amounted to 10,445,981 gallons, up 10.6 percent over the previous month.

Creosote—The market picture for creosote oil did not look too bright for the third quarter because of a lag in buying interest on the part of the railroads. Certain other creosoting operations, however, looked less bleak for the Summer months. The production of creosote by cokeoven operators amounted to 2,759,644 gallons in April, according to the Bureau of Mines, up 11.2 percent over the March output of 2,481,143 gallons. A year ago the monthly production amounted to 3,029,436 gallons.

Cresols—Demand was said to be such as to take up all production, so that shipments were promptly made without either inventory accumulation on the one hand or back orders piling up on the other. This balanced condition in the market was expected to be rather well maintained for the third quarter, some producers felt.

Cresylic Acid—Practically all domestic producers expressed the view that sales on this item in all grades was generally good. Production was moving promptly into consuming channels. For the most part, supplies were adequate for prompt shipment and any delays were occasional.

With respect to imported ADF acid, the market was spotty. Prices were firm at levels recently prevailing and no change was immediately expected. Some dealers were moving acid regularly in good volume while others experienced some difficulty in disposing of material. Petroleum cresylics moved steadily in quite significant volume to limited end uses.

Naphthalene—This market was regarded in several quarters as being still slow, despite the fact that phthalic anhydride seemed to be moving steadily in fair volume. Some of the other naphthalene derivatives were said to be still off in demand, and naphthalene supplies of domestic material were accordingly plentiful. The domestic manufacturers, however, seemed to be enjoying the bulk of the available naphthalene business, since imported material was reported as very quiet.

What few offerings there were from abroad were at price levels considered as unattractive in view of the domestic 5c. price. Naphthalene market conditions in Europe were such as to take up production abroad at prices which precluded cheap imported naphthalene prices in this country. This situation might be due for a change, the feeling was expressed, by the third quarter.

Naphthalene production by cokeoven operators was reported by the Bureau of Mines as amounting to 5,199,692 pounds in April compared with 10,514,675 pounds in April of 1953. This brought the cokeoven naphthalene output so far this year to 27,469,267 pounds, as against the 43,251,381 pounds turned out during the corresponding period of last year.

Phenol—Natural phenols moved steadily from production directly into consuming channels. Supplies were adequate to take care of the current needs of established customers, but there was not enough left over to encourage looking for new business.

On synthetic phenol supplies were abundant, backed up by still greater plant production capacity. Some improvement in demand from large volume consuming industries has been recently reported, and

Production Estimate

Estimated output of coal chemicals recovered from cokeoven operations during the week ending June 19, was as follows:—

Ammonia liquid, NH_3	lbs.	819,400
Ammonium sulfate	lbs.	29,615,471
Benzol	gals.	2,832,784
Coaltar	gals.	12,993,349
Creosote oil	gals.	725,754
Naphthalene, crude	lbs.	2,001,678
Pyridine, refined	lbs.	21,070
Toluol	gals.	557,192
Xylol	gals.	148,662

For Late Market Developments, See Page 4

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KOPPERS **Coal Chemicals**

makers looked toward a reasonably good third quarter.

Pyridine—Output of refined 2 degree pyridine by cokeoven operators was reported by the Bureau of Mines as 33,940 pounds, an increase of 560 percent over the 5,140 pounds refined in March, as compared with 126,268 pounds refined in April one year gao. The market on pyridine was still slow and spotty and was likely to remain so until such time as some new volume outlets for the item can be commercially developed.

Toluol—Nitration toluol was somewhat on the short side, due in part to longer coking times currently prevailing in the reduced operations of the steel industry. Greater activity in steel has been noted recently, but the improvement was slight and gradual, and faster coking times were not likely to become standard practice for sometime yet.

For solvent purposes the overall picture on toluol was regarded as one of adequate but not plentiful supply, since there was sufficient petroleum source material available to take up the slack in coaltar output and demand. Prices were firm and unchanged.

The Bureau of Mines reported cokeoven production of toluol of all grades as totaling 2,546,147 gallons in April, as compared with 2,812,261 gallons in March, and 2,988,643 gallons in April of last year. This brought cokeoven toluol production so far this year to 11,031,273 gallons, as against the 11,957,509 gallons turned out in the corresponding period of 1953.

Xylol—There was no change in conditions in this market, there, as usual, not being enough coaltar source xylol to go around. Prices were firm and unchanged. Cokeoven production in April was reported by the Bureau of Mines as amounting to 772,902 gallons, off 10.9 percent from the March output of 867,888 gallons. April, 1953, production stood at 801,812 gallons. For the first four months of this year total cokeoven xylol output was only 43,171 gallons less than for the same period of last year.

Intermediates

N-Acetylsulfanilyl Chloride—Production of this intermediate in 1953 was reported by the Tariff Commission as 3,775,000 pounds. No figures were available as to price and sales quantities.

Aminoanthraquinone—This item moved well into vat dye production. The total 1953 output was reported by the Tariff Commission as 1,174,000 pounds of the 1-amino and 1,095,000 pounds of the 2-amino, compound and its salts.

Cleve's Acid—Preliminary reports of the Tariff Commission indicate that the 1953 total production of this item amounted to 140,000 pounds of the 1,6- acid and 194,000 pounds of the mixed acid. Production of the 1,7- acid amounted to 139,000 pounds. Demand from the dyestuff industry was reported as fair, from quite adequate supplies.

Fumaric Acid—A moderate amount of activity has been sustained by a steady demand in this market. Supplies were good. Prices were unchanged.

Phthalic Anhydride—Most sources said that the market for phthalic was pretty good. One or two suppliers have noted a slight buildup in interest in the past few weeks. General demand from industrial finishes has not been quite as strong as it might be, but there has been a fair volume going to alkyd resins for do-it-yourself type paint use. There has also been a reasonably good movement of phthalic for plasticizers, although the number of makers in that business has made competition keen.

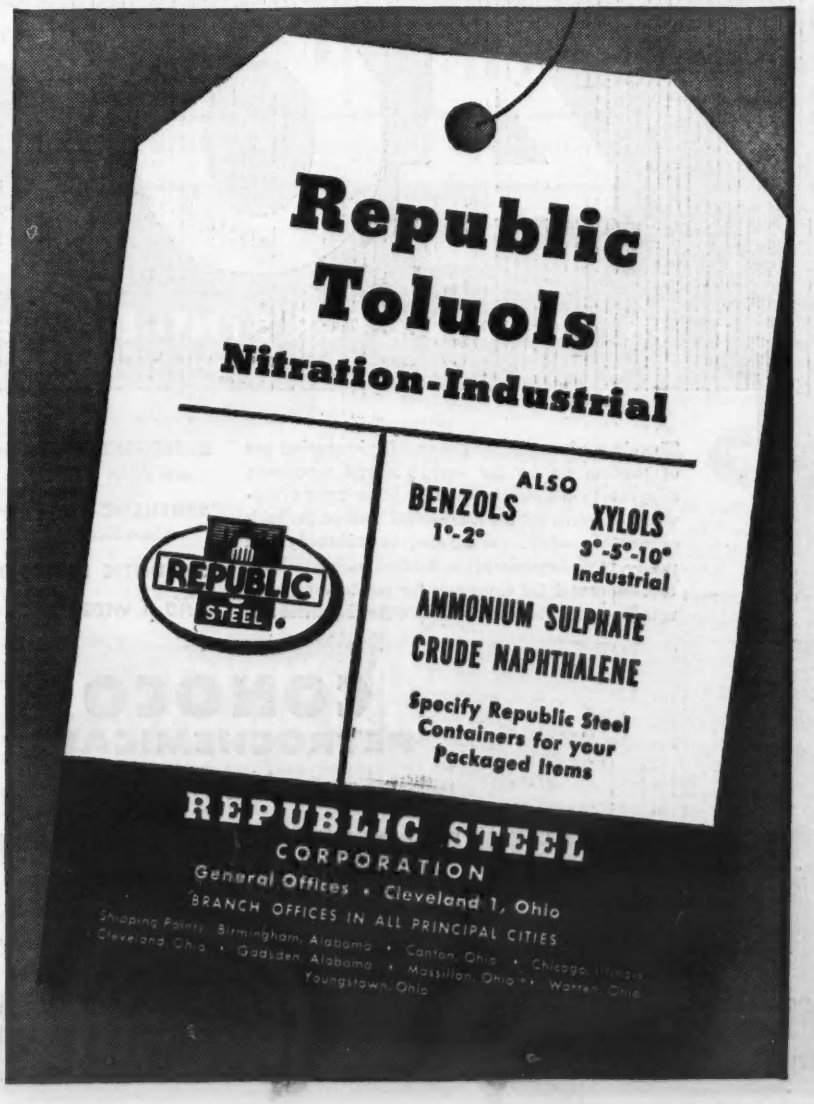
Tobias Acid—Demand for this acid was said to be steady under a firm price structure, but like the intermediate business in general, it was felt that demand for dyestuff could be considerably better. Production in 1953 amounted to some 3,286,000 pounds.

Toluenesulfonic Acid—Sales of this intermediate have been at a relatively slow pace. Producers indicated that what buying interest there was from textile outlets came in spurts. It was felt that inventories were low and consumers were also reducing stocks of finished goods. Current quotations were on the same basis as previously.

Trade Briefs

Dow Chemical Company's Texas division, Freeport, Tex., has added H. C. Behrens as a design engineer in the instrument department.

S. A. Dodge, president of Solventol Chemical Products, Inc., Detroit, Mich., and president of Lions International, travelled more than 150,000 miles in thirty-seven countries visiting Lions clubs last year.



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Plastics in Housing Design To Be MIT Research Study

A broad survey of the usefulness of plastics as a material for housing will be the subject of a one-year research program now in organization stages at the Massachusetts Instiute of Technology, Cambridge, Mass. Dean Pietro Belluschi of MIT's School of Architecture and Planning stated that a grant of $10,000 from Monsanto Chemical Company, St. Louis, Mo., will support the one-year project. A committee of five members of the MIT faculty is supervising the study.

R. K. Mueller, Monsanto vice-president and general manager of the firm's plastics division, said the grant was made to expand the industry's knowledge "of the proper and sound use of plastics in home design and to avoid misapplications. The project should uncover new concepts of plastics as a material for housing design, as well as beneficial guides for the plastics industry in developing appropriate applications for its versatile products in this field."

Dean Belluschi also pointed out that the survey would emphasize existing applications in which plastics have proved successful and new applications which are definitely sound. "We expect," he continued, "that this study will yield illustrative material in the form of creative suggestions for the use of manufacturers, fabricators, and designers."

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Benzol Sought by Formosa

The Central Trust of China, Taipeh, Taiwan, has asked for bids on 520 metric tons of industrial grade benzol under Foreign Operations Administration procurement authorization No. 840-390-00-995-4209. Suppliers in the United States and Possessions, Canada, Japan or the European participating countries may submit bid offers until July 8 (Taipeh time) to the Central Trust of China, Division of United States Aid, 96 Po Ai road, Taipeh, Taiwan.

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Chemical Export April Gain Outdistances Rise of Imports

United States exports of chemicals and related products rose sharply during April over the level of March while imports showed only a slight increase, according to preliminary compilations of the Bureau of Census made public last week.

The bureau reported exports at a level of $103,300,000 for April, which compared with only $66,700,000 in March and attributed the increase to higher exports of medicinals, pharmaceuticals, chemical specialties and industrial chemicals. April imports of chemicals and allied products amounted to $26,900,000, an increase of $900,000 over March.

Increases in exports in April were general throughout most categories. The bureau stated that exports of all merchandise climbed from $1,123,000,000 to $1,420,900,000, a level of about 26 percent above the 1954 first quarter average of $1,132,000,000 and approximately 8 percent above the 1953 monthly average of $1,313,700,000. Meanwhile, general imports rose from $858,000,000 to $957,200,000, or to approximately 15 percent above the 1954 first quarter average of $833,500,000 and 6 percent above the 1953 monthly average of $906,200,000.

During the same period, exports under the Mutual Security Program showed a decline from $203,600,000 to $167,400,000. During the first four months of 1954, exports, including MSP shipments, were valued at $4,816,800,000, or about 9 percent below the comparable 1953 total of $5,276,200,000. With MSP shipments excluded, exports for the first four months were valued at $4,092,100,000, or slightly above the comparable 1953 total of $4,048,200,000. Imports during the first four months of 1954 were valued at $3,458,100,000 as compared with the 1953 four-month total of $3,796,100,000.

New York Purchasing Agents Pick MacKenzie as President

Stanley W. MacKenzie, director of purchases, United States Rubber Company, New York, was elected president of the Purchasing Agents Association of New York at its annual meeting held June 15 at the New Yorker hotel. Other officers elected are:—

Vice-presidents, Edward M. Krech, director of purchases, J. M. Huber Corporation, and Frederick C. Esser, purchasing agent, Westinghouse Electric Corporation, lamp division; treasurer, Edward B. Fielis, and executive committee members, David S. Gibson, Worthington Corporation, John R. Zehner, Turner Construction Company and Lewis A. Norris of the New York Stock Exchange.

Fumaryl Chloride Potentialities Booklet Prepared by Nat'l Aniline

The potentialities of fumaryl chloride as an intermediate in the production of dyestuffs, insecticides and pharmaceuticals are the subject of a bulletin prepared by National Aniline division of Allied Chemical & Dye Corporation, New York. The folder contains a list of the physical properties of the material and a brief discussion of important chemical reactions in which fumaryl chloride takes part. A bibliography of twenty-two references is included.

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Textile and Leather Chemicals

Moderate volume of business was reported in textile and leather chemicals last week, chiefly for immediate requirements. While trading continued restricted, the tone of the market remained steady. Prices were without change and held at former levels for the entire list.

Offers of potato starch for shipment from Maine mills continued scarce as limited stocks were closely held by grinders. Owing to the tight supply situation in Maine, Canadian starch became available on a competitive price basis and tended to offset the advancing trend of the former. Consumer interest in replacements was fair, with actual trading quiet. Tapioca flour remained steady, reflecting the strength of Siamese and Javanese replacements. Consumers continued to take fair sized lots for spot delivery, while business for shipment from producing centers was quiet. Inquiry for new crop Brazilian flour continued slow and the market continued merely nominal. Corn starch was fairly active, reflecting the increased cost of potato starch, while demand for corn dextrin was light and spotty. Buying interest for sago flour was limited to immediate needs, while demand for future delivery continued slow.

Consuming inquiry for tanning materials continued to lag in view of the usual one to two week vacation shutdowns in July of most tanneries. In some instances sellers have been instructed not to make deliveries until the latter part of July. Offers of wattle extract were scarcer due to the shut down of factories during July and August. Prices were unchanged and firm.

Rayon and acetate yarn and staple shipments during May totaled 92,000,000 pounds, a slight gain over April, but 16 percent less than during May last year, according to the Textile Economics Bureau. Rayon regular and intermediate tenacity yarn shipments in May amounted to 14,900,000 pounds, a gain of 3 percent over April. Producers stocks in this category declined to 33,100,000 pounds and acetate yarn stocks to 21,600,000 pounds. A new record was reached in shipments of rayon staple and tow, in May totaling 24,700,000 pounds. Acetate staple and tow shipments amounted to 7,600,000 pounds, 19 percent more than April, while stocks declined to 7,200,000 pounds.

Price Trends

Advanced
None
Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 19, 1953
95.80	95.80	95.62	100.95

(For Current Prices see page 9)

Chemicals

Bichromates—Market was firm and quotably unchanged. Demand was fair for immediate requirements, with deliveries against contracts fairly active.

Sodium Hydrosulfite—Moderate demand was noted for prompt delivery. Stocks were ample and maintained at prevailing quotations.

Sulfonated Oils—Business was reported light and spotty. Prices were without change and well held.

Sizing Materials

Albumin Blood—While buying interest was confined to actual needs, prices were steady and unchanged. Stocks were adequate to cover current demand and available at 65c. to 80c. per pound, depending upon quantity.

Corn Starch—Good consuming business was reported for prompt delivery. Market was steady at prevailing quotations. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots, and powder, $7.26 per 100 pounds. New York basis. Smaller quantities were 15c. per 100 pounds higher. Visible corn supply continued to drop, declining 1,309,000 bushels to 15,468,000 bushels for the week ended June 11, compared with 17,900,000 bushels for the corresponding week last year, according to the Chicago Board of Trade.

Some 40,000,000 bushels of 1953-crop corn were placed under price support loans in the month ending May 15, it was reported by the Department of Agriculture. This increased the total to 406,200,000 bushels put under the support program, against 344,600,000 bushels of the 1952 crop during the same period last year. The deadline for corn loans was May 31.

Egg Albumin—Trading was restricted to immediate needs. Market was unchanged and steady. Flake was maintained at $1.50 to $1.52 per pound, and powder, at $1.54 to $1.56 according to quantity. Technical was inactive and unchanged at 85c. to 87c. per pound, as to quantity.

Egg Yolk—Buying interest was fair and confined to immediate delivery. Prices were unchanged at $1.08 to $1.10 per pound, spot according to quantity.

Potato Starch—Business was reported light and spotty. Prices remained unchanged and steady. Offers from Maine were still scarce and quotations were nominal at 6¾c. to 7c. per pound, carlots, f.o.b. mills. Offers of Canadian starch on a competitive basis with Maine starch has acted as a deterrent to further price advance for the domestic product. Idaho starch was quiet, and held at 6.3c. per pound, carlots, f.o.b. mills, with 50c. allowance of shipment to eastern points. Fair demand was noted for stocks on spot, which were maintained at 8¾c. to 9¼c. per pound, exwarehouse, as to quantity.

Sago Flour—Small lots moved for spot delivery at former prices. Raw flour was quoted at 6¾c. to 7c. per pound and refined, 8½c. to 9c. per pound, exwarehouse depending upon quantity. Shipments were unchanged at 5¾c. per pound, carlots, exdock.

Tapioca Flour—This market was quiet, but steady, reflecting the firmness of replacements. Top grade Siamese for shipment was held at 6¾c. to 7c. per pound, carlots, exdock, with medium at 6¼c. and low, 5½c., same basis. Inquiry for new crop Brazilian flour was slow and shipments were quoted nominally at 9c. per pound, carlots, exdock. On the spot top Siamese was maintained at 7½c. to 7¾c. per pound, exwarehouse, as to quantity. Javanese AAA was unchanged at 7¼c. to 7¾c. per pound and AA at 7c. to 7½c., exwarehouse, as to quantity and seller.

Tanning Materials

Chestnut Extract—Tanners limited purchases to actual needs. Market was quotably unchanged. Liquid 25 percent tannin was quoted at 4¼c. per pound, tankcars, f.o.b. works; 5.10c. per pound, barrels, carlots, and 5.43c. barrels, less carlots, powdered, 10.92c. per pound, bags, carlots, and 11.65c., bags, less carlots, same basis.

Cutch—Shipments remained steady at 8½c. per pound, exdock, plus duty. Consuming inquiry was fairly active, with production sold ahead.

Mangrove Bark—Business was restricted to prompt requirements. Shipments were quotably unchanged. African bark was quoted at $69 to $70 per ton exdock; Ecuadorian, $55 per ton, and Colombian, $58 per ton, same basis.

Myrobalans—Offers for shipment were maintained at former levels. Prices were more or less nominal. JI's assorted were quoted at $47 per ton, exdock; ordinary, $43, and crushed JI's, $63, same basis. Indian solid extract was quoted at 7¼c. per pound, exdock, plus duty, and spray dried 60 percent 9½c. to 10c., same basis.

Quebracho Extract — Steady tone prevailed in this market. Business was reported spotty, chiefly for prompt shipment. Solid ordinary was quoted at 11 31/64c. and clarified 12 3/16c. per pound, exdock, plus duty.

Valonia — Consuming inquiry lacked snap. Shipments were available at former levels. Beards were quoted at $64.50 per ton, exdock, and cups, $49 to $50 per ton, same basis. Extract ranged from 8¾c. to 9⅛c. per pound, exdock, plus duty, as to quality.

Wattle—Offers for shipment were well held at current quotations. Consuming inquiry was restricted to prompt shipment. Fair average bark was quoted at $98 per ton, and merchantable, $94 per ton, exdock. South and East African extracts 60 percent tannin, were held at 10c. per pound, exdock, plus duty. Offers of wattle extract were scanty due to shut down of factories during July and August.

For Late Market Developments, See Page 4

Mutual Bichromates
SODIUM BICHROMATE
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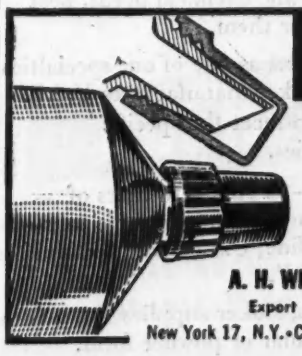
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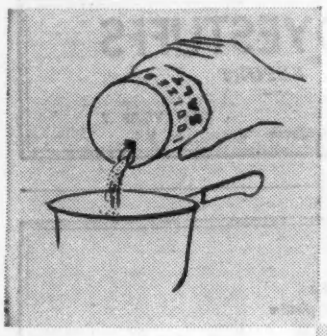

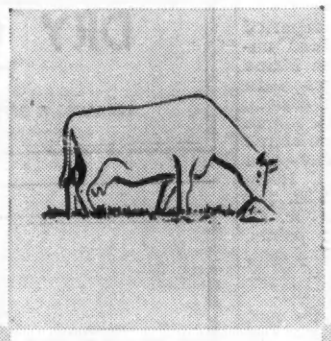

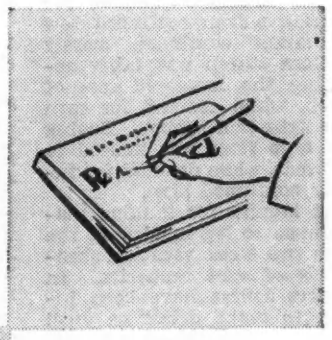

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Price activity mounted in this market last week as caffeine and theobromine prices were advanced by producers. The advance in caffeine amounted to 25 cents per pound for both the hydrous and anhydrous material. This increase was the first reversal in price trend in this item since 1951 when prices started their downward procession. Over successive years, domestic caffeine producers were forced to cut price schedules several times in an effort to meet competition given by lower priced European material which was then coming into the country in sizable quantities. A few months ago, prices on imported caffeine began to rise as supplies grew shorter due to heavy sales in Europe, on both sides of the Iron Curtain. Offerings of imported material have since declined greatly and domestic producers, accordingly, reflected their higher manufacturing costs last week.

Theobromine prices were advanced 35 cents on the alkaloid with a proportionate increase in theobromine salt prices. Theobromine and sodium acetate was advanced 20 cents with theobromine sodio-salicylate up 15 cents per pound. Natural menthol prices continued to advance last week as raw materials continue tight. Brazilian menthol was up 25 cents per pound with a strong possibility of future price boosts, it was said.

Japanese menthol continued to be quoted, on a more or less nominal basis. Prices have risen to fabulous levels for this item when compared with the current price of Brazilian menthol.

Natural camphor prices continued very firm. The low quotation in the market advanced 2 cents last week on camphor powder. Tablets were unchanged in price although there were very few lots said to be available. The outlook for the immediate future, at any rate, was for a continued tight supply situation in this commodity. Synthetic camphor prices remained unchanged and quite firm in view of the bullish tone in the natural material.

Antibiotics—The market in bulk antibiotics was reported to be steady. Prices have been unchanged for some time and demand was reported to be fair to good with seasonal influences reportedly an important factor in the easing of demand as compared to that during the cold weather. The Tariff Commission reported that production of dihydrostreptomycin amounted to 13,005,882 grams in March compared to 14,934,706 grams produced in February, 1954. Production of penicillin and salts (bulk material only) totaled 33,138,505,000,000 Oxford units during March, 1954, compared to the 30,394,590,000,000 Oxford units turned out during February. Production of streptomycin in February aggregated 5,706,587 grams compared to 3,889,349 grams in March, 1954.

Caffeine—Rising raw material costs in addition to a substantial decrease in offerings of imported caffeine combined last week to boost prices on domestic manufacturers' schedules. Production of caffeine in Europe has been absorbed abroad, for the most part, by other European countries both outside and within the Iron Curtain, it was said. As a result, there has been a sharp rise in prices abroad and offerings in the domestic market have gradually dwindled to an insignificant quantity. For the first time in years, domestic manufacturers have been able to bring prices more into line with actual costs without fear of being undercut by imported material, it was noted.

Prices advanced 25c. per pound on both the hydrous and anhydrous grades. The new schedule on caffeine, hydrous was $2.90 per pound with the anhydrous form priced at $3.10. Citrated caffeine was advanced 15c. to $2.80. This advance in caffeine schedules reversed the downward trend which has characterized this market since 1951, a trend which had resulted in domestic prices being reduced approximately 50 percent during that period.

Camphor—Prices advanced 2c. per pound on natural camphor powder last week. The current range on duty paid camphor powder was from 60c. to 65c. per pound. Natural camphor tablets, of which there was little available, ranged from 75c. to 80c. per pound. The shortage of natural camphor was expected to continue in the immediate future without any substantial improvement. It was reported that Formosa had sold heavily to other countries and that stocks were at a low point although there definitely was the possibility that dealers were holding back material awaiting higher prices. Offerings were few and replacement prices higher than the current market, it was said.

Synthetic camphor was reported to be moving at good levels with prices very firm in view of the advancing trend in the natural camphor market.

Chlorophyll—Demand for chlorophyll continued to be limited generally to a few large users. Chewing gum, dog food and toothpaste manufacturers continued to account for the bulk of chlorophyll used today. There were reports that chlorophyll consumption would increase this year under the stimulus of research findings which will indicate a step up in medical applications of the water soluble chlorophyll derivatives. Price schedules continued unchanged.

Menthol—Spot prices continued to advance on Brazilian menthol last week. The latest increase amounted to 25c. per pound, bringing current quotations to $6 to $6.25 per pound. The outlook was for a continuing firming of the market in view of the reported short supply of peppermint oil from which Brazilian menthol is made. The low state reached in the natural menthol market was said to have resulted in curtailment of planting operations with growers switching to more lucrative crops. This fact plus the factor of rising synthetic menthol prices have combined to drive prices upward, it was said. Prices on laevo menthol which made from citronella oil have advanced in line with the rising market in the oil. This combination of events was expected to keep the market very firm in the immediate future, at least, it was said. Volume of consumer demand has not been excessive and may have somewhat of a counterbalancing influence to the higher price trend.

Mercurials—Prices continued without change on mercurial compounds last week. Demand was reported to be moving at routine levels, on the whole. The series of price advances as a result of spiraling quicksilver costs over the past two months was reported to have had a generally salutary effect upon sales as consumers moved to cover their requirements and build up inventories which had been allowed to fall to low levels.

Molasses—Prices for feed molasses continued unchanged at most points during the week ended June 15, 1954. East coast blackstrap prices were generally steady with Albany at 12½ cents per gallon. The Gulf market was unsettled and undergoing adjustment as the price for cane blackstrap at New Orleans is now 10¼ to 10½ (mostly 10½) cents per gallon. Some distributors are currently quoting prices slightly above and below this level. Demand for feed molasses shows slight improvement both in the Gulf area and on the east coast, although the volume of molasses moving into the feed industry is seasonally low. West coast molasses demand continued moderate. Market conditions for beat, citrus and hydrol molasses remain unchanged from last week.

Production of Cuban hi-test molasses from 1954 surplus sugar cane amounted to 99,000,000 gallons as of May 31, 1954, according to the Cuban Sugar Stabilization Institute, and 39,000,000 gallons had been exported from Cuba as of same date. The Institute also reported total hi-test molasses sales of 215,600,000 gallons. Trade sources in this country indicate that total Cuban hi-test production will probably not be over 125,000,000 gallons. Heavy rains in Cuba have slowed produc-

For Late Market Developments, See Page 4

Price Trends

Advanced

Caffeine, 25c. per lb.
Citrated, 15c. per lb.
Camphor, natural, powder, 2c. per lb.
Menthol, natural, Brazilian, 25c. per lb.
Theobromine, NF, 35c. per lb.
and sodium acetate, USP, 20c. per lb.
Sodio-salicylate, NF, 15c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	June 19, 1953
68.83	68.81	71.94	73.45

(*For Current Prices see page 9*)

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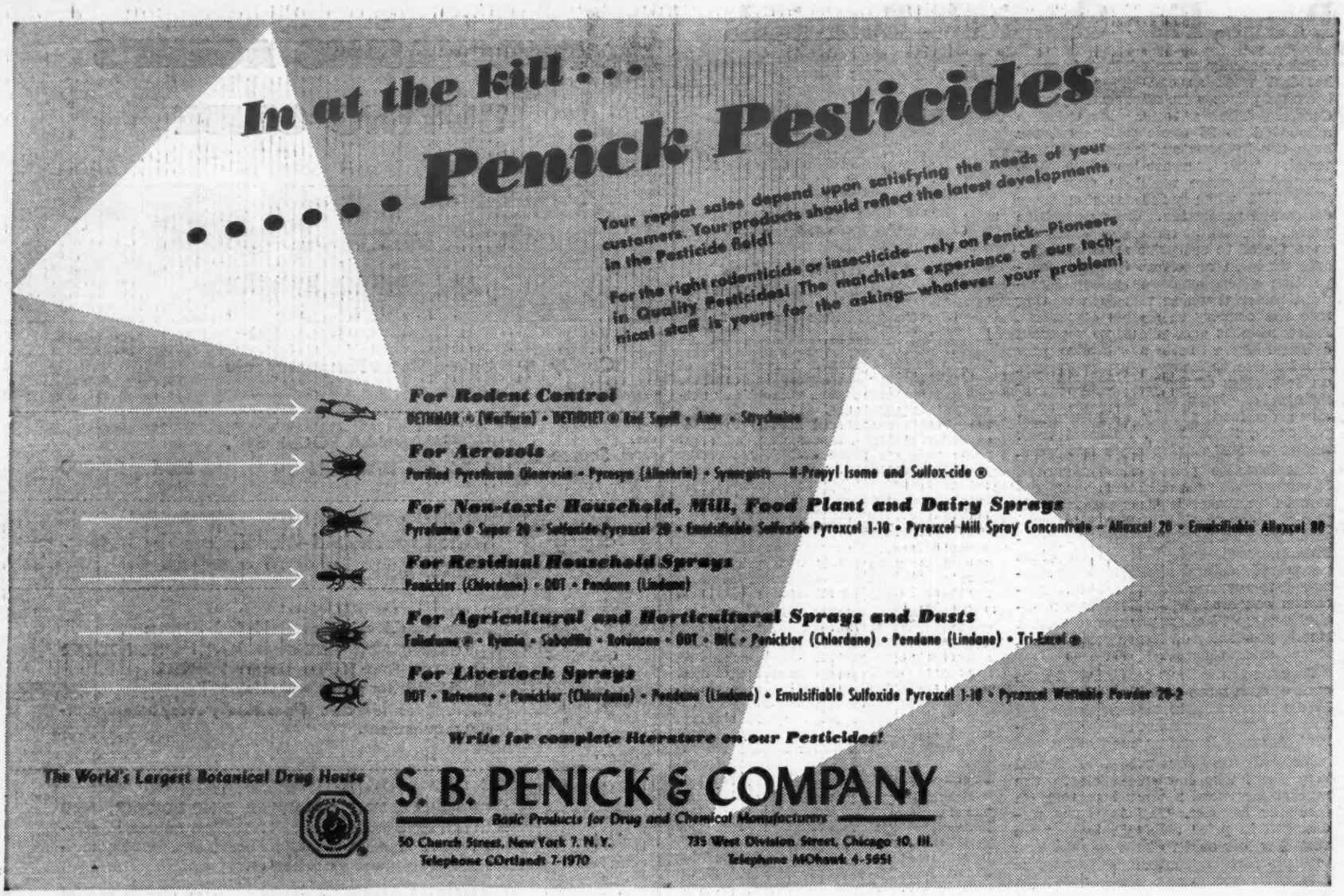
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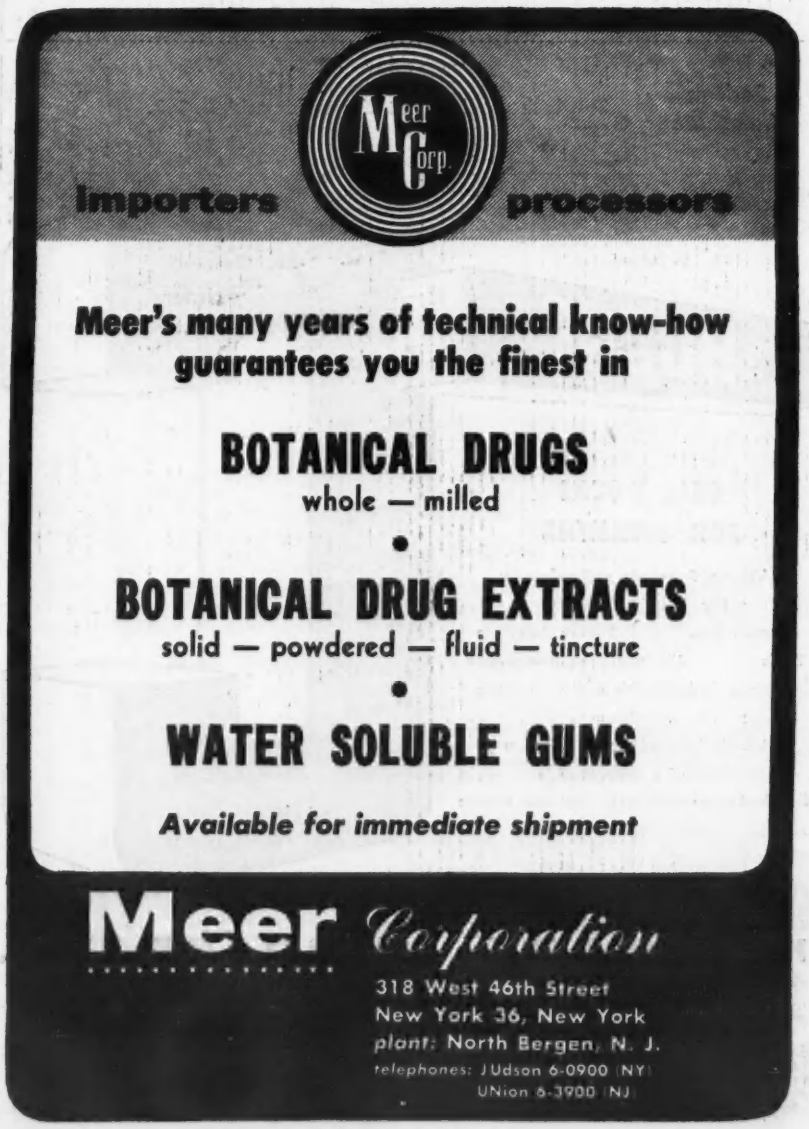

tion and several mills have already ceased operations.

Theobromine—Prices schedules were advanced on theobromine and its salts last week. The increase was simultaneous with an advance in caffeine prices. Prices of these two items customarily move together, it was noted. Theobromine, NF, was advanced 35c. to $3.35 per pound while theobromine and sodium acetate, USP, was upped 20c. per pound to $3.75. Theobromine sodio-salicylate was advanced 15c. and was quoted at $3.05 to $3.10 per pound.

Botanicals

Reports from collection areas in the southern part of the country were said to be somewhat disappointing to date, according to some trade sources. There has been little or no gathering of some botanicals as a result of indifference on the part of collectors. Prices were said to be too low to create interest in collection. The rising standard of living in the South which has resulted from the movement of considerable industry into that area has diminished the supply of cheap labor for this arduous work. The building of roads from back country areas has made possible much better transportation to urban areas with the result that people in these areas are now able to commute to jobs which were non-existent years ago, it was said.

In particular, there has been only a small collection to date of mandrake root and stocks from last year have dwindled to very low levels, it was said. Although too early to be certain, it appeared that collection of lobelia herb and witch hazel leaves may also prove disappointing this year.

Black Haw Bark—The market was very quiet. Prices ranged from 65c. to 70c. on the root bark and from 40c. to 42c. for the tree bark.

Gum Arabic — Spot buying was reported to have picked up to some extent. Prices quoted at origin were expected to boost replacement costs and dealers here reported that it may be necessary to advance quotations to cover the higher replacement costs.

Gum Karaya—Demand on spot remained slow. Detentions were said to be continuing with the ultimate outcome expected to reflect in higher costs from abroad due to increased cleaning costs. Prices were steady. Anticipated higher replacement costs were reported to be instrumental in the cessation of price cutting, it was said.

Ipecac Root—The supply situation in this botanical continued tight. Primary centers report that sales to Europe have made less root available to the American market. A factor in the current supply situation was the shortage of labor for collection purposes. The influx of other industries into collection areas has curtailed the available cheap labor supply, it was said.

Mandrake Root—The spot market was essentially unchanged. The collection pattern to date was reported to be poor. Interest in gathering the root was said to be slight in view of current low prices offered by dealers.

Serpentina Root—It was reported last week that the government of India had relaxed its embargo on exports of rauwolfia serpentina root on May 28.

The herb, recently found to be of value in relieving high blood pressure, has been exported only from India. Suspension of exports from India was ordered on April 21 to conserve supplies for Indian needs after Indian prices and volume of exports had recorded substantial increases.

Relaxation of the embargo was brought about by a government decision to release consignments covered by letters of credit established prior to the suspension date. The matter of permitting exports under "firm" commitments for which letters of credit had not yet been established will be considered at a later date when individual cases will be reviewed and decided on their merits.

The longer term Indian policy with respect to rauwolfia serpentina exports will be formulated on the basis of a forest survey undertaken to determine the available supply. The survey report is not expected for 2 or 3 months.

Rauwolfia serpentina is a wild shrub growing throughout most of India. It has long been an important medicinal in that country, and recently its root was found to contain alkaloids of value in relieving high blood pressure or hypertension. Many pharmaceutical firms in America and elswehere have begun to manufacture and distribute rauwolfia products, it was said.

Ansul Development Manager

Franklin W. Wedge has been named manager of the newly-created commercial chemical development department of Ansul Chemical Company, Marinette, Wis. The new unit, part of Ansul's research and development program, brings together in one central agency several functions performed by other departments. Mr. Wedge, who has been with the company since 1948 as a research chemist, will head a staff responsible primarily for research on new and existing chemical products, for developing preliminary market information on potential new products and for introducing new chemical products.

SAACI Plans Golf Outing June 29 in Larchmont, N.Y.

The first 1954 golf outing of the Salesmen's Association of the American Chemical Industry will be held June 29 at the Bonnie Briar Country Club, Larchmont, N. Y. This year for the first time permanent trophies will be awarded for all classes. To be eligible to win one of the trophies, however, golfers must play in at least two of the season's four outings. Reservations are being handled by D. R. Calo, Niagara Alkali Company, New York.

Drug Show Will Feature Store Modernization Plans

A section detailing a gradual store modernization plan has been added as a feature of the seventh annual drug, cosmetic and sundry show scheduled for September 19 through 21. The show, sponsored by the Pharmaceutical Council of Greater New York, will be held at the McAlpin hotel, New York. Laib Shenkin, of Shenkin Equipment Company and national director of sales engineering for Mayflower Showcase Company, has been designated director of drug equipment and modernization exhibits at the show. He will also serve as moderator of a panel which will discuss the subject of drug store modernization.

Emphasis of this section of the show will be upon the practical feasibility of an owner undertaking a gradual improvement program, based upon a master plan and carried out over a period of years with the cost being met from increased earnings. Mr. Shenkin has stated as his belief that this is the type of improvement program the drug store owner is looking for and that the section of the show will be able to explain to him how to accomplish it without undue financial burden.

Parke, Davis Starts Building New Sales Branch in Detroit

Parke, Davis & Co. has started building a new 40,000-square-foot office and warehouse for its Detroit, Mich., regional sales branch on the southeast corner of East Jefferson avenue and Adair street. The new facilities will be entirely separate from the general offices and research and manufacturing laboratories, which are located along the Detroit River at the foot of Joseph Campau. The Detroit sales branch has been occupying quarters there since the early 1900's.

Herbert B. Duncan, branch manager, said that occupancy of the contemporary-styled, one-story structure is scheduled for late this fall. "This new sales office and warehouse will enable us to provide better and faster service to approximately 10,000 physicians, pharmacists, hospitals and wholesale druggists in Michigan and Northwestern Ohio," he explained. "The facilities will enable us to use the latest technics in warehousing products and processing orders."

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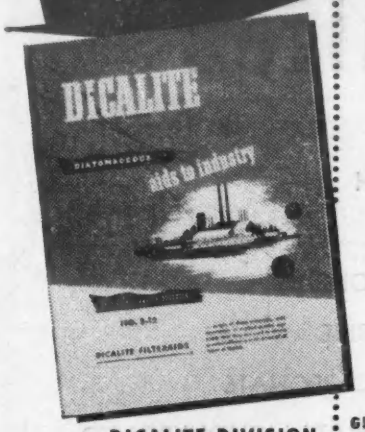

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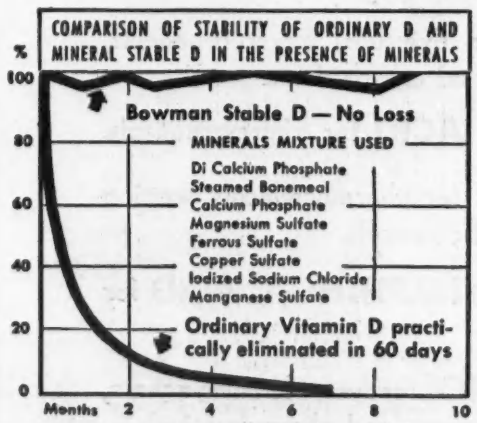

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Import Permit Invalidation Announced by Bolivian Gov't

Bolivian import permits issued before June 30, 1953, will be invalid after June 30 of this year, the Foreign Commerce Department of the Central Bank of Bolivia has announced.

Beginning July 1 Bolivian banks may not effect payment against import permits issued before June 30, 1953, unless a new import permit chargeable against the current fiscal year is obtained. Bolivian consuls have been instructed not to certify any shipments after June 30 which are covered by import licenses issued before June 30, 1953.

The purpose of this requirement is to eliminate a growing backlog of import permits against which shipments have not yet been made or for which remittances of foreign exchange have not been effected by Bolivian importers. It enables the Central Bank to keep abreast with its balance-of-payments position and to eliminate a demand against the country's limited foreign exchange reserves by reason of an accumulation of unexecuted import permits.

The Bolivian government on September 30, 1953, invalidated all import licenses issued before December 31, 1952.

Pharmaceutical Imports Of Thailand Tabulated

Thailand imports a substantial quantity of its pharmaceuticals from the United States, reports the Department of Commerce. Its total imports of certain pharmaceuticals from all countries compared with its imports from the United States are shown in the following statistics, from the Thailand Department of Customs, covering a 16-month period, June, 1952, through September, 1953. Quantities are given in kilograms (1 kilogram=2.2046 pounds).

	Total Imports	From U. S.
Penicillin tablets	23,783	14,292
Penicillin in oil	4,314	3,545
Penicillin crystals	411	167
Dihydrostreptomycin	1,189	639
Sulfadiazine tablets	4,342	1,002
Sulfathiazole tablets	4,517	3,470
Sulfaguanidine tablets	6,326	15
Sulfapyridine tablets	8,143	....

Abbott Laboratories Opens Branch Office in Memphis

Abbott Laboratories, North Chicago, Ill., has opened a new branch sales office and distribution warehouse at 1954 Latham street, Memphis, Tenn. The branch building has rail and truck facilities, warehouse space and air-conditioned offices.

William C. Jackson has been named Memphis branch manager. Mr. Jackson joined Abbott in 1935 as a sales representative in Tennessee, Alabama and Arkansas. He later became the company's special representative at the Mayo Clinic, Rochester, Minn. After the war, he became manager of Abbott's district 10 with headquarters in Memphis. Charles Thau, previously office manager of Abbott's branch in Dallas, Tex., has been named office manager at Memphis.

Steel Shipping Barrels Output In April Below That of March

April production of steel shipping barrels and drums, on an average workingday basis, was down 1 percent from that of March, and down 7 percent from that of April, 1953, according to the Bureau of Census. During the month the industry turned out 1,892,472 heavy-type steel barrels and drums; 926,300 light-type steel barrels and drums, and 6,192,941 steel shipping packages, kegs and pails. This compares with 1,950,222 heavy-type steel shipping barrels; 900,585 light-type steel shipping barrels, and 6,035,540 steel shipping packages, kegs and pails in March.

Trade Briefs

Eli Lilly & Co., Indianapolis, Ind., has approved a grant to support the fifth congress of the International Society of Hematology.

Jack I. Poses of D'Orsay Sales Company and Samuel Rubin of Faberge, Inc., have been named honorary chairmen of the drugs and cosmetics division of the 1954 joint defense appeal campaign of the American Jewish Committee and the Anti-Defamation League of B'nai B'rith.

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Vitamin Commission Begun With Prof. Brunius Chairman

To provide standardization in the vitamin assay of foods in various countries and to facilitate international trade, a vitamin commission has been organized under the auspices of the food division of the International Union of Pure and Applied Chemistry with Prof. E. Brunius, of the National Public Health Institute, Stockholm, Sweden, as chairman. The additional members are:—Dr. W. F. G. Cuthbertson of Glaxo Laboratories, Ltd., England; Dr. Max Kofler of Hoffmann-La Roche, Ltd., Switzerland; Dr. Bernard L. Oser of Food Research Laboratories, Inc., Long Island City, and Dr. Henri Simonnet of National Veterinary School and National Agronomic Institute, France.

The commission will explore vitamin procedures specifically adapted to food products entering into international commerce. Thus medicinal vitamin preparations, such as are presently included in the national and international pharmacopoeias, will not be included. Examples of food sold for their vitamin content are dried yeasts, wheat germ oil, marine liver oils, leaf meals, rose hips, and certain concentrates of vitamins A, D, E, B_{12}, and carotene. The nutritional and economic value of many foods in addition to these are controlled in part by their vitamin content.

Candy Technologists Choose Officers, Councilors-at-Large

Norman W. Kempf of Walter Baker & Co., Dorchester, Mass., has been elected president of the American Association of Candy Technologists. Named as first and second vice-presidents, respectively, were Vincent R. Ciccone, Charms Company, Bloomfield, N. J., and Otto Windt, E. J. Brach & Sons, Chicago. Edward W. Meeker of American Sugar Refining Company, New York, has been elected secretary-treasurer and Hans F. Dresel of Felton Chemical Company, Brooklyn, N. Y., assistant secretary.

Named as councilors-at-large for one-year terms were:—Samuel Goldstein, Loft Candy Corporation, New York; William Zuckerman, Felton Chemical Company, and C. R. Kroekel, Kroekel-Oetinger, Inc., Philadelphia. Elected for two-year terms as councilors-at-large were:—Charles F. Supplee, Frantz Candies, Inc., Lancaster, Pa.; Otto Glaser, Dairy Maid Confectionery Company, Philadelphia, and Edward N. Heinz, jr., Food Materials Corporation, Chicago.

Pharmaceutical Directory Is Published for All India

The All India Pharmaceutical Directory, 1953-54, has been published in accordance with the directions of the Indian Pharmaceutical Association.

The directory, the first of its kind to be published covering the whole country, "aims at giving in one single volume information of interest to the pharmaceutical manufacturer, importer, wholesaler, retailer, and the practicing pharmacist." It is said to contain detailed lists of chemists and druggists, manufacturers of drugs and medicines, suppliers of pharmaceutical chemicals and pharmaceutical machinery.

Mann Has New Peptides

Mann Research Laboratories, New York, has announced the synthesizing of five new carbobenzoxy-peptides. The compounds are:—Carbobenzoxy-glycol-leucine; carbobenzoxy-glycol-l-leucine amide; carbobenzoxy-glycol-l-leucylhydrazide; carbobenzoxy-glycyl-l-phenylalanine, and carbobenzoxy-glycol-l-phenylalanine amide.

United States Revenue Returns Details Are Reported for April

Details of collections of miscellaneous internal revenue taxes for April have been issued by the Bureau of Internal Revenue. Among the collections reported by the bureau were the following:—

	April 1954	April 1953
Coconut and other vegetable oils, processed	505,000	1,626,000
Distilled spirits, domestic excise tax	132,348,000	136,976,000
Distilled spirits, imported excise tax	17,242,000	15,568,000
Gasoline	6,795,000	67,939,000
Lubricating oils	875,000	5,798,000
Matches	190,000	761,000
Narcotics, including marihuana and special taxes	41,000	54,000
Silver bullion sales or transfers stamp tax	3,000	2,000
Sugar	661,000	6,217,000
Toilet preparations, excise tax	6,503,000	9,236,000
Transportation of oil by pipeline	2,748,000	2,745,000

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AGAR—75 bls, Mallet & Co, Kobe
10 bls, Halford Lewis Co, Kobe
20 bbls, Bankers Trust Co, Barcelona
10 bbls, Guaranty Trust Co, Barcelona
5 bbls, Guaranty Trust Co, Valencia

ALBUMIN—100 dms, D L Moss, Copenhagen
100 dms, Pillsbury Mills, Copenhagen

ALOE—76 crts, Mossel Bay

p-AMINOSALICYLIC ACID—6 dms, Frank Samuel & Co, Hamburg

ANILINE DYES—235 dms, C A Haynes, Rotterdam
8 dms, Ciba Co, Rotterdam
14 dms, L & R Organic Products Co, Rotterdam
22 dms, C A Haynes, Hamburg
47 dms, Hensel Bruckmann & Lorbacher, Hamburg
24 dms, Heemsoth Kerner, Liverpool
8 cans, Hensel Bruckmann & Lorbacher, Hamburg
32 dms, Sandoz Chemical Works, Havre
26 dms, Hensel Bruckmann & Lorbacher, Bremen
4 dms, C A Haynes, Bremen

ANTIMONY REGULUS—309 cs, Split

ARABIC GUM—304 bgs, Hanover Bank, Port Sudan
101 bgs, Bank of N Y, Port Sudan
250 bgs, Guaranty Trust Co, Port Sudan
50 bgs, National City Bank, Port Sudan

ARGOLS—666 bgs, Tartaric Raw Materials, Oran

ASBESTOS FIBER—400 bgs, Refractory & Insulation, Lourenco Marques
300 bgs, Ruberoid Co, Lourenco Marques

BEESWAX—84 blks, R J Lepfow, Djibouti
17 bgs, Lenape Trading Co, Havana
34 bgs, Bank of Manhattan Co, Santiago
45 bgs, D Steengrafe, Santiago
13 bgs, Irving Trust Co, Sanchez
100 bgs, Curacao Trading Co, Ciudad Trujillo
98 bgs, Tampico
54 bgs, Santiago

BELLADONNA LEAVES—133 bls, S B Penick & Co, Hamburg

BERGAMOT OIL—20 hf cs, Antoine Chiris, Messina
6 hf cs, Tombarel Products Corp, Messina
20 hf cs, Citrus & Allied Essential Oils, Messina
18 qu cs, River Plate Corp, Messina

BISMUTH—95 bxs, Cerro de Pasco Corp, Callao
68 cs, Manufacturers Trust Co, Split
45 cs, Manufacturers Trust Co, Rijeka

BLANC FIXE—800 bgs, C J Osborn, Rotterdam

BLEACHING POWDER—100 dms, Chemical Manufacturing Co, Liverpool

BRUCINE—10 cs, Lo Curto & Funk, Glasgow

BUCHU LEAVES—20 bls, Meer Corp, Capetown

BUCKTHORN BARK—211 bls, Wm M Allison & Co, Rijeka
47 bls, S B Penick & Co, Rijeka
100 bls, S B Penick & Co, Split

CAFFEINE—5 bbls, R J Saunders, Bremen

CALCIUM p-AMINOSALICYLATE—4 dms, American International Products Corp, Copenhagen

CAMPHOR OIL—10 dms, Orbis Products Corp, Kobe

CAPROLACTAM—100 dms, Allied Chemical & Dye Corp, Rotterdam
2 dms, Firestone Tire & Rubber Co, Bremen

CARAWAY OIL—1 dm, Internatio Rotterdam, Rotterdam
SEED—100 bgs, Rotterdam

CARDAMOM SEED—127 cs, Wm E Martin, Puerto Barrios

CARNAUBA WAX—1,347 bgs, D Levin, Bahia
564 bgs, World Commerce Corp, Bahia
67 bgs, W R Grace & Co, Fortaleza
376 bgs, National City Bank, Rio de Janeiro
320 bgs, S C Johnson Co, Fortaleza
500 bgs, Chase National Bank, Tutoia
501 bgs, Tutoia

CASEIN—1,100 bgs, G Jimenez Corp, Buenos Aires
1,000 bgs, Borden Co, Buenos Aires
170 bgs, Tupman Thurlow, Copenhagen
500 bgs, Tupman Thurlow, Buenos Aires
4,000 bgs, National City Bank, Buenos Aires
4,000 bgs, Eugenio Lang, Buenos Aires
2,000 bgs, Buenos Aires

CASSIA—411 bls, R J Spitz, Rotterdam
270 bls, Pitt Petry, Rotterdam
180 bls, Borneo Sumatra Trading Co, Rotterdam
83 bls, A G Dunn, Rotterdam
1,139 pkgs, Rotterdam
591 bls, Rotterdam

CASTOR BEANS—11,693 bgs, Baker Castor Oil Co, Salvador
3,388 bgs, Spencer Kellogg, Salvador
1,300 bgs, Grace National Bank, Bahia
5,082 bgs, Spencer Kellogg, Bahia

OIL—300 tons, Brazilian Industrial Oils, Fortaleza
200 tons, W C Hardesty Co, Fortaleza

CHESTNUT EXTRACT—385 bgs, Tanimex Corp, Marseille

CITRONELLA OIL—22 dms, London

CLAY, BURNT—100 bgs, Liverpool

CLOVE—200 bls, Lo Curto & Funk, Tamatave
200 bgs, Lo Curto & Funk, Tamatave
100 bls, M J Golombeck, Tamatave
105 bgs, Marseille

LEAF OIL—20 dms, Lo Curto & Funk, Tamatave

COALTAR DYES—3 dms, Hensel Bruckmann & Lorbacher, Rotterdam
33 bbls, Antwerp

COCHINEAL—47 bgs, Callao

COCONUT OIL—297 tons, Pacific Vegetable Oil Corp, Manila

COD OIL—20 dms, Bowring & Co, St Johns
100 dms, Bremen

LIVER OIL—220 dms, Norwich Pharmacal Co, Bergen
100 bbls, Arista Oil Products Co, Kristiansund

COTTON LINTERS—125 bls, Williamson Northup Co, Santos

CREAM OF TARTAR—300 bgs, T M Duche & Sons, Genoa
100 bbls, Nulos Trading Co, Rotterdam

CRESYLIC ACID—50 dms, H A Gogarty, Liverpool

CUBE ROOT—222 bgs, Callao

CUMIN SEED—692 bgs, Toledano & Pinto, Casablanca

CUTTLEFISH BONE—150 cs, Corn Exchange Bank, Portimao

DEXTRIN—500 bgs, Manhattan Paste & Glue Co, Rotterdam
1,221 bgs, National Starch Products, Rotterdam
100 bgs, Arabol Manufacturing Co, Rotterdam

DIPHENYLAMINE—40 dms, Federal Paint Co, Liverpool

EARTH COLORS—34 bbls, Chase National Bank, Bremen
450 bgs, Rotterdam

EPSOM SALT—809 bgs, Interstate Chemical Corp, Bremen

EUCALYPTUS OIL—20 dms, American Trust Co, Barcelona

FENNEL OIL—2 dms, Magnus Mabee & Reynard, London
SEED—180 bgs, Chemical Bank, Hamburg

FERRIC CARBONYL—54 dms, Caldwell & Co, Antwerp

FISHMEAL—6 bgs, Antwerp

FUEL OIL—104,510 bbls, Metropolitan Petroleum Corp, Punta Cardon
137,250 bbls, Paragon Oil Co, Punta Cardon
106,153 bbls, Paragon Oil Co, Curacao
106,124 bbls, Esso Export Corp, Tampico
109,995 bbls, Asiatic Petroleum Corp, Curacao
215,000 bbls, Esso Standard Oil Co, Aruba
216,913 bbls, Paragon Oil Co, Tampico
105,146 bbls, Esso Export Corp, Catipito
153,000 bbls, Esso Export Corp, Aruba

GALL, OX—30 dms, Montevideo

GARLIC OIL—2 cs, Magnus Mabee & Reynard, Kobe

GELATIN—50 dms, Hensel Bruckmann & Lorbacher, Rotterdam
24 bgs, Rotterdam
107 bgs, Antwerp
55 bbls, Coignet Chemical Co, Antwerp
200 bgs, Corbett & Co, Marseille
600 bgs, B Young, London

GENTIAN ROOT—200 bls, Superintendence Co, Split

GERANIUM OIL—1 dm, Brown Bros, Algiers

GINGER—169 bgs, M J Golombeck, Kobe
85 bgs, Kellys American Ltd, Kobe
62 bgs, Hoffman Beverage Co, Kingston
32 bgs, Kingston

GLUESTOCK—760 bls, H Remis & Co, Puerto Cabello
57 bls, John Gorvers, Callao

GLYCINE—11 cks, Rosenthal Bercow, Rotterdam

GRAPHITE—1,200 bgs, Asbury Graphite Mills, Bremen
500 bgs, Asbury Graphite Mills, Bergen
250 bgs, Superior Flake Graphite Co, Colombo
500 bgs, Asbury Graphite Mills, Colombo

GYPSUM—358 bgs, Whittaker Clark & Daniels, Liverpool
100 bgs, A Gusmer, Liverpool
5,256 tons, U S Gypsum Co, Hantsport
7,560 tons, National Gypsum Co, Dingwall

HERRINGMEAL—2,000 bgs, Wilbur Ellis Co, Haugesund

HOOF & HORNMEAL—2,099 bgs, Tupman Thurlow, Buenos Aires

HYDROXYCYCLOHEXYL HYDROPEROXIDE—45 cs, Celanese Corp of America, Rotterdam

IPECAC ROOT—20 bls, Herman Hollander, Santos

IRON BLUES—5 dms, Van Oppen & Co, Liverpool

KAOLIN—320 kgs, E Fougera, London

KARAYA GUM—123 bgs, T I Smith Co, London

KOLA NUTS—25 bgs, C German, Kingston

LACTIC ACID—20 djms, R J Saunders, Rotterdam

LACTOSE—600 dms, Nestle Co, Liverpool
50 cks, F Samuel & Co, Rotterdam

LAVENDER FLOWERS—51 bls, Meer Corp, Marseille

LEMON OIL—10 ctns, H Marmorek & Son, Jaffa
16 cs, H Marmorek & Son, Jaffa
12 hf cs, Tombarel Products Corp, Messina

LEMONGRASS OIL—1 dm, Fritzsche Bros, La Libertad

LIVERMEAL—1,159 bgs, Armour & Co, Buenos Aires
400 bgs, J H Schroder, Montevideo

LOCUST BEAN GUM—300 bgs, T M Duche & Sons, Genoa
150 bgs, Morningstar Nicol, Genoa
200 bgs, Stein, Hall & Co, Portimao
2 bgs, J L Quesada, Valencia

LOGWOOD EXTRACT—100 cks, American Dyewood Co, Kingston

LYCOPODIUM—20 cs, Prevatoroff Ltd, Rotterdam

MACE—30 cs, Ludwig Mueller, Hamburg
8 cs, Karl H Landes & E Balint, Grenada
21 cs, Internatio Rotterdam, Macassar
52 cs, Catz American Co, Macassar
24 cs, Rotterdam

MAGNESIUM CARBONATE—1,100 bgs, Reheis Co, Liverpool

MERCURY—300 btls, Mercantile Metal & Ore Corp, Rijeka
250 flks, Lo Curto & Funk, Leghorn
75 flks, Lo Curto & Funk, Tampico

MOLASSES—1,160 tons, W R Grace & Co, Salaverry

MONOCHLOROACETIC ACID—154 dms, International Selling Corp, Marseille

MONTAN WAX—200 bgs, Frank B Ross, Hamburg
100 bgs, Wax & Rosin Products, Bremen
111 bgs, Rotterdam

MUSTARD SEED—500 bgs, C Gulden, Napies
5 bgs, R T French, Naples
100 bgs, Amaren Trading Corp, Hamburg

NAPHTHALENE—2,272 bgs, American Cyanamid Co, Liverpool
1,111 bgs, Rotterdam

NAPHTHENIC ACID—2,985 bbls, Esso Standard Oil Co, Aruba

NICKEL ACETATE—28 bgs, Aceto Chemical Corp, Bremen

CHLORIDE—12 cks, Inco Trading Corp, Bremen

SULFATE—40 bgs, Beekman Shipping Co, Liverpool
40 bgs, Beekman Shipping Co, Hamburg
80 bbls, Chas Page & Co, Gothenburg

NUTMEG—500 bgs, Karl H Landes & E Balint, Grenada
300 bgs, John Holt & Co, Grenada
200 bgs, George Lueders & Co, Grenada
100 bgs, A G Dunn, Grenada
50 bgs, Kellys America Ltd, Grenada
62 bgs, Fuerst Bros, Macassar
134 bgs, Catz American Co, Macassar
88 bgs, A G Dunn, Rotterdam
33 bgs, R Badenhop Corp, Rotterdam
61 bgs, Becker Mayer Seed Co, Rotterdam

OCOTEA CYMBARUM OIL—22 dms, Stein Hall & Co, Itajai
28 dms, Lo Curto & Funk, Itajai

OITICICA OIL—75 dms, Brazilian Industrail Oils, Fortaleza

OLIBANUM GUM—67 bgs, Irving Trust Co, Massawa

OLIVE OIL—129 dms, J Ossola, Marseille
356 dms, Credit Suisse, Malaga
52 dms, Hanover Bank, Malaga
105 dms, Bank of America, Seville
158 dms, Manufacturers Trust Co, Malaga
104 dms, Brown Bros, Malaga
767 dms, Malaga
50 dms, B Torman & Sons, La Coulette
100 dms, B Filippone & Co, La Coulette
100 dms, Strohmeyer & Arpe, La Coulette
249 dms, Chase National Bank, Seville
50 dms, Credit Suisse, Seville
25 dms, Corn Exchange Bank, Seville
125 dms, Seville

OURICURY WAX—223 bgs, River Plate Corp, Bahia
301 bgs, A Judson Murray, Rio de Janeiro
56 bgs, Bahia

PALM OIL—235 tons, Procter & Gamble, Singapore
200 tons, Canada Packers Ltd, Singapore

KERNEL OIL—30 dms, Rotterdam
200 dms, Rotterdam
962 tons, Hamburg

PAPAIN—34 cs, American Ferment Co, Colombo
37 cs, Whitehall Shipping Co, Mombasa
10 cs, Wessel Duval & Co, Mombasa

PAPRIKA—500 bgs, J Weinstein, Alicante
325 bgs, Gallagher & Ascher, Alicante
250 bgs, A A Sayia, Alicante
400 bgs, Griffith Labs, Rijeka
200 bgs, M J Golombeck, Rijeka

PATCHOULI OIL—2 dms, Volkart Bros, Penang
10 cs, Unger & Co, Penang
20 cs, Lo Curto & Funk, Penang

PEATMOSS—3,000 bls, J E Bernard, Hamburg
3,000 bls, C Fafard, Hamburg
1,575 bls, E J Lang, Hamburg
2,000 bls, C Fafard, Bremen
1,500 bls, Lion Trading Co, Bremen
750 bls, Marine Midland Trust Co, Bremen
3,565 bls, National Distributors, Bremen
4,575 bls, Premier Peatmoss Corp, Bremen
3,050 bls, Lion Trading Co, Hamburg
2,000 bls, Gellco Inc, Bremen
8,500 bls, New Amsterdam Import Co, Bremen
3,500 bls, E Dunwoody, Bremen
500 bls, Lewis International Co, Bremen
600 bls, Halfmoon Manufacturing & Trading Co, Rotterdam
800 bls, Premier Peatmoss Corp, Dublin
1,000 bls, Interocean Chemical & Mineral Corp, Bremen
800 bls, Bruco Peatmoss Corp, Bremen
500 bls, E J Lang, Bremen
1,300 bls, J E Bernard, Bremen
3,500 bls, Atkins & Durbrow, Bremen
3,950 bls, Amco Shippers, Bremen
1,000 bls, Bremen

PECTIN—32 kgs, Jafbro Corp, Copenhagen

PEPPER, BLACK—80 bgs, Chemical Bank, Alleppey
160 bgs, Alleppey
160 bgs, Cochin
80 bgs, Boukouris & Co, Cochin
40 bgs, A G Dunn, Cochin
40 bgs, M F Corio, Cochin
240 bgs, A C Israel, Kozhikode
40 bgs, Joensson & Cross, Koznikode
80 bgs, M Golodetz, Kozhikode
40 bgs, M Badenhop, Kozhikode

RED—318 bgs, Public National Bank, Massawa
10 bgs, Massawa

PETITGRAIN OIL—5 dms, Irving Trust Co, Buenos Aires
11 dms, Wessel Duval & Co, Buenos Aires
1 cs, P Chalever, Port Au Prince

PETROLEUM, CRUDE—292,681 bbls, Esso Standard Oil Co, Cartagena
200,000 bbls, Esso Standard Oil Co, Puerto La Cruz
212,114 bbls, Socony Vacuum Oil Co, Puerto La Cruz

PIMENTO—50 bgs, Kellys America Ltd, London
50 bgs, Van Norden & Co, London

LEAF OIL—3 dms, Wm E Martin, Kingston

POLYVINYL ACETATE—25 bbls, Bremen
1 bbl, Terra Chemicals Inc, Bremen

CHLORIDE—4,400 bgs, Pentasote Co, Genoa

POPPYSEED—200 bgs, M J Golombeck, Rotterdam
200 bgs, C M Van Sillevoldt, Rotterdam
250 bgs, Rotterdam
667 bgs, Istanbul

QUEBRACHO EXTRACT—1,021 bgs, Tanimex Corp, Buenos Aires

RAPESEED—229 bgs, Catz American Co, Rotterdam

RED, IRON OXIDE—1,600 bgs, Smith Chemical & Color Co, Malaga
1,980 bgs, Naftone Inc, Bremen
441 bgs, Whittaker Clark & Daniels, Malaga

RICE STARCH—100 bgs, Stein Hall & Co, Alexandria

ROSEMARY OIL—7 dms, Alicante

SABADILLA SEED—200 bgs, Wessel Duval & Co, La Guaira
65 bgs, S B Penick & Co, La Guaira

SACCHARIN—2 kgs, Falkek Products Co, Copenhagen

SAGE LEAVES—100 bls, Split

OIL—7 dms, Norda Essential Oil & Chemical Co, London

SASSAFRAS OIL—25 dms, Lo Curto & Funk, Kobe

SEAWEED EXTRACT—20 cks, T M Duche & Sons, Copenhagen
20 cks, Westco Chemicals, Copenhagen

SEEDLAC—500 bgs, Gillespie Rogers Pyatt, Bangkok
500 bgs, Bangkok

SENNA LEAVES—400 bls, Prentiss Drug & Chemical Co, Tuticorin
60 bls, Max Van Pels, Tuticorin

SESAME SEED—2,101 bgs, Independent Halavh & Candies, Fe Union
329 bgs, A Sabadi, La Union
200 bgs, Archibald & Kendall, Corinto
432 bgs, Levy & Levis Co, Corinto
550 bgs, Ideal Trading Co, Salonika

HULLED—25 bgs, Archibald & Kendall, Beirut
20 bgs, Ludwig Mueller, Beirut

SHELLAC—100 bgs, F H Paul & Stein Bros, Rotterdam
41 bgs, F H Paul & Stein Bros, Bremen

SIENNA—400 bgs, Leghorn

SODIUM ALGINATE—4 bbls, Croda Inc, Oslo

p-AMINOSALICYLATE—60 dms, Chase National Bank, London
20 dms, Frank Samuel & Co, Hamburg

BICARBONATE—999 bgs, Chemical Manufacturing Co, Liverpool

PERBORATE—300 dms, Bendix Chemical Corp, Rotterdam

SPERMACETI WAX—100 ctns, Glasgow

STARCH—68 bgs, Morningstar Nicol, Rotterdam
3 dms, Morningstar Nicol, Rotterdam

TALC—1,135 bgs, Charles Mathieu, Genoa
500 bgs, Whittaker Clark & Daniels, Marseille

TANNING EXTRACT—20 bgs, River Plate Corp, Liverpool

TARA POWDER—150 bgs, Nyanza Co, Salaverry

THIOUREA DIOXIDE—13 dms, Van Oppen & Co, Liverpool

THYME LEAVES—75 bls, Louis Furth, Marseille

TOLU BALSAM—22 cs, R D Heins, London

TRAGACANTH GUM—15 cs, M N Hakkak, Rotterdam

TUNU GUM—474 cs, L A Dreyfus & Co, Corinto

TURMERIC—80 bgs, Mincing Trading Corp, Cochin
80 bgs, S B Penick & Co, Cochin
25 bgs, M J Golombeck, Kingston

ULTRAMARINE BLUE—30 bgs, Filo Color & Chemical Corp, Antwerp
4 dms, Antwerp

UREA, SYNTHETIC—2,000 bgs, Chemical Manufacturing Co, Liverpool

VALONIA CUPS—1,520 bgs, Barkey Importing Co, Canakkale
1,853 bgs, Barkey Importing Co, Izmir

VANILLA BEANS—4 cs, French American Banking Corp, Semarang
8 cs, P H Petry, Semarang
13 cs, Thurston & Braidich, Marseilles

VETIVER OIL—2 dms, L A Champon & Co, Port au Prince

WATTLE EXTRACT—1,920 bgs, River Plate Corp, Mombasa

WHALELIVER OIL—13 dms, Collett-Week-Nibecker, Yokohama

WHITING—800 bgs, Whittaker, Clark & Daniels, London
80 bgs, Pluess Staufer, Antwerp
896 bgs, Hammill & Gillespie, Copenhagen

WOOL GREASE—150 dms, Chemical Bank, Bremen
100 dms, N I Malmstrom, Manchester

YLANG YLANG OIL—3 dms, L A Champon & Co, Mutsamudu
2 dms, M Bash, Mutsamudu

ZINC OXIDE—40 bgs, C B Chrystal & Co, Marseilles

SULFIDE—800 bgs, C J Osborn, Rotterdam

Baltimore

ALCOHOL, LAURYL—72 cks, American Alcolac Corp, Bordeaux

ARSENIC, CRUDE—23 bbls, American Smelting & Refining Co, Tampico

CHESTNUT EXTRACT—1,373 bgs, Tanimex Corp, Bordeaux

FISHMEAL—1,087 bgs, Linfors Chemical Co, Ilo
1,305 bgs, Supe
652 bgs, Callao

GLUE—350 bgs, D C Andrews, London

LEATHERMEAL—350 bgs, H J Baker & Bro, Rotterdam

PEATMOSS—2,018 bls, Premier Peatmoss Corp, Bremen
1,170 bls, F H Shallus Co, Bremen
1,750 bls, E J Lang, Bremen
750 bls, Bruco Peatmoss Corp, Bremen
400 bls, New Amsterdam Import Co, Bremen
400 bls, Bremen

QUEBRACHO EXTRACT—2,202 bgs, International Products Corp, Buenos Aires
991 bgs, Manufacturers Trust Co, Buenos Aires

STARCH—100 bgs, Rotterdam

TALC—2,000 bgs, Whittaker, Clark & Daniels, Bordeaux
1,000 bgs, L A Salomon & Bro, Bordeaux
275 bgs, Charles Mathieu, Genoa

WATTLE EXTRACT—1,070 bgs, River Plate Corp, Durban

Boston

BONEMEAL — 1,171 bgs, Ovimpex Inc, Buenos Aires
1,1[illegible] bgs, Eastman Gelatine Corp, Buenos Aires

LOCUST BEAN GUM—150 bgs, Genoa

QUEBRACHO EXTRACT—509 bgs, Manufacturers Trust Co, Buenos Aires

TALC—200 bgs, Charles Mathieu, Genoa

TANKAGE—1,114 bgs, Guaranty Trust Co, Buenos Aires

WHALEMEAL—1,250 bgs, Pisco

Charleston

ASBESTOS FIBER—560 bgs, Beira

WATTLE EXTRACT—1,602 bgs, River Plate Corp, Durban

Los Angeles

AGAR—27 cs, Moorhead & Co, Yokohama

BONEMEAL—1,103 bgs, H V Nootbaar & Co, London

CASSIA—72 pkgs, Rotterdam

COPRA—200 long tons, Procter & Gamble Co, Cebu
500 long tons, Pacific Vegetable Oil Corp, Medina
494 long tons, Procter & Gamble Co, Jolo

CAKE—1,120 bgs, Balfour Guthrie & Co, Zamboanga
7,840 bgs, Wilbur Ellis Co, Manila
4,200 bgs, Balfour Guthrie & Co, Manila
2,000 bgs, Pacific Vegetable Oil Corp, Manila

CUTTLEFISH BONE—100 cs, Seed & Feeding Corp, Rotterdam

LANOLIN—19 dms, Pacific Coast Borax Co, Manchester

UREA—4,056 bgs, Charles Page & Co, Antwerp
13,227 bgs, Atkins Kroll & Co, Antwerp

Newport News

CHESTNUT EXTRACT—2,221 bgs, Mead Corp, Bordeaux

Norfolk

BONE FLOUR—2,205 bgs, Wessel Duval & Co, Rotterdam

DAMMAR GUM—50 cs, O G Innes Corp, Bangkok

PEATMOSS—1,675 bls, W M Stone & Co, Hamburg
500 bls, Premier Peatmoss Corp, Bremen
750 bls, E J Lang, Bremen

QUEBRACHO EXTRACT—3,666 bgs, Manufacturers Trust Co, Buenos Aires
1,093 bgs, Buenos Aires

Philadelphia

ANTIMONY OXIDE—600 bgs, Glasgow

ASBESTOS FIBER—1,800 bgs, Lourenco Marques
451 bgs, Durban

BONE—[illegible] bgs, Brown Bros, Montevideo

CARNAUBA WAX—1,347 bgs, D Levin, Salvador

CASE—500 bgs, Borden Co, Buenos Aires

CASTOR BEANS—10,107 bgs, Baker Castor Oil Co, Salvador

CRESYLIC [illegible]00 dms, Concord Chemical Co, Rotterdam
50 dms, T G Cooper Co, Rotterdam
100 dms, Glasgow

GYPSUM—6,312 tons, U S Gypsum Co, Hantsport

MINERAL WAX—20 bgs, Bremen

MOLASSES—2,165 tons, Chas Kurz Co, Matanzas
1,530,104 gals, Chas Kurz Co, Nuevitas
1,961,852 gals, Publicker Co, Manati

PEATMOSS—335 bls, Marine Midland Trust Co, Bremen
500 bls, Lion Trading Co, Bremen
500 bls, Bruco Peatmoss Corp, Bremen
500 bls, E J Lang, Bremen
3,450 bls, Premier Peatmoss Corp, Bremen
800 bls, Bremen
3,150 bls, Keermaurer, Hamburg
500 bls, New Amsterdam Import Co, Bremen

PETROLEUM, CRUDE—398,397 bbls, The Texas Co, Sidon
117,308 bbls, The Texas Co, Covenas
114,603 bbls, The Texas Co, Puerto La Cruz
127,276 bbls, Gulf Oil Corp, Umsaid
223,004 bbls, Gulf Oil Corp, Las Piedras
230,691 bbls, Gulf Oil Corp, Puerto La Cruz
338,978 bbls, Atlantic Refining Co, Puerto La Cruz
119,718 bbls, Atlantic Refining Co, Pamatacual
115,568 bbls, Gulf Oil Corp, Mena Al Ahmadi
302,464 bbls, Socony Vacuum Oil Co, Mena Al Ahmadi
123,[illegible]84 bbls, Socony Vacuum Oil Co, Covenas
145,000 bbls, Socony Vacuum Oil Co, Puerto La Cruz

QUEBRACHO EXTRACT—525 bgs, Manufacturers Trust Co, Buenos Aires

SHELLAC—100 bgs, Dings & Schuster, Bremen

San Francisco

ASBESTOS FIBER—1,920 bgs, Keasby & Mattison, Beira
960 bgs, Keasby & Mattison, Lourenco Marques

BONEMEAL—2,205 bgs, Genoa

CALCIUM NITRATE—29,200 bgs, Wilson & Geo Meyer & Co, Heroya

CASEIN—273 bgs, N Rubens & Co, Buenos Aires
226 bgs, Buenos Aires

CLOVE—75 bls, Dares Salaam

COPRA—1,800 tons, American Trust Co, Cebu
464 tons, Atkins Kroll & Co, Pago Pago
250 tons, Cargill Inc, Cebu
100 tons, El Dorado Oil Works, Jolo
600 tons, Jolo

FISHMEAL—2,974 bgs, Wilbur Ellis Co, Chimbote
4,521 bgs, Wilbur Ellis Co, Ilo
556 bgs, Balfour Guthrie, Chimbote

GALENA—1,631 bgs, American Smelting & Refining Co, Manila

GYPSUM—8,970 tons, Kaiser Gypsum Co, San Marcos

HERRINGMEAL—3,000 bgs, S L Jones & Co, Oslo
2,000 bgs, Balfour Guthrie, Oslo

KELPMEAL—660 bgs, Norwegian Kelpmeal Importing Co, Bergen

LIVERMEAL—315 bgs, Tupman Thurlow, Buenos Aires
222 bgs, Atkins Kroll & Co, Buenos Aires
550 bgs, Montevideo

PAPRIKA—50 bgs, A A Sayia, Marseille
50 bgs, S H Tyler & Sons, Marseille
PEATMOSS—300 bls, Grace & Co, Rotterdam
PEPPER, BLACK—259 bgs, C Czarinkow, Singapore
48 bgs, Internatio Rotterdam, Djakarta
32 bgs, Mincing Trading Corp, Cochin
PETROLEUM CRUDE—32,588 tons, Tide Water Assoc Oil Co, Sungai Pakning
POPPYSEED—100 bgs, D Hecht & Co, Buenos Aires
QUEBRACHO EXTRACT—900 bgs, International Products Corp, Buenos Aires
SUNFLOWER OILCAKE MEAL—3,736 bgs, Buenos Aires
SEED MEAL—1,444 bgs, Atkins Kroll & Co, Montevideo
6,617 bgs, Buenos Aires
5,000 bgs, Montevideo
TAPIOCA FLOUR—53 bgs, H M Newhall & Co, Singapore
TUNG O.L—118 tons, Internatio Rotterdam, Buenos Aires
TURMERIC—64 bgs, Mincing Trading Corp, Cochin
UREA—3,400 bgs, Wilson & Geo Meyer & Co, Herova
1,000 bgs, Nylos Trading Co, Genoa
SYNTHETIC—2,000 bgs, C M C Chemicals, Hull
VANILLA BEANS—12 cs, Papeete

Wyeth Lab Building Started

Wyeth Laboratories, Philadelphia, has broken ground for a multi-million-dollar headquarters building in Radnor Township, twelve miles west of Philadelphia. Scheduled for completion in July, 1955, the building will house the executive and sales offices and research laboratories of the company, now located at 1401 Walnut street and 900 North Broad street, Philadelphia.

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US Bidding Invited by NATO Under Military Building Plan

An opportunity will be extended to American firms to bid on contracts under the military construction program of the North Atlantic Treaty Organization, it was announced jointly last week by the Department of Commerce and Department of Defense.

The program provides for construction of such facilities as tactical airfields, petroleum storage tanks and distribution pipelines, tele-communications, radio navigational aids, training areas, and radar installations required for the support of allied military forces assigned to NATO military headquarters.

Total cost of the program is estimated to exceed $2,000,000,000. Authorizations already granted for approved programs total $1,600,000,000 of which a substantial amount still is available for international competitive bidding. The remaining $400,000,000 is earmarked for programs during 1954-55. Currency of payment will be determined by the country calling for bids.

Specific opportunities for international bidding for NATO military construction contracts will be reported by the Bureau of Foreign Commerce in its official publication, *Foreign Commerce Weekly*.

Agriculture Dept. Awards Plum Island Lab Contract

The Department of Agriculture has awarded to Stock Construction Corporation, New York, the contract for construction of the Plum Island Animal Disease Laboratory. Stock Construction had earlier submitted the low bid of $7,712,000. Plum Island is near the eastern end of the north fork of Long Island, N. Y. The purpose of the laboratory will be to study foot-and-mouth disease and other foreign diseases of animals that create a threat to the livestock industry.

Besides the laboratory itself, construction will also include a guard house, decontamination building, steam and emergency power plant, fuel oil storage and supply system and an addition to the motor pool area. Construction of the main laboratory facilities is expected to require eighteen months to complete, it was stated.

Merck Scientific Vice-Pres. Observes 25th Anniversary

Dr. Randolph T. Major, scientific vice-president of Merck & Co., Rahway, N. J., has completed twenty-five years of association with the company. Dr. Major has been with Merck since 1929, serving as director of pure research and director of research and development before becoming vice-president in 1947.

Dr. Major was the recipient of the 1951 medal of the Industrial Research Institute for "outstanding accomplishment in leadership in or management of industrial research which contributes broadly to the development of industry or the public welfare." At one time he was chairman of the committee on chemical warfare of the research and development board of the Department of Defense.

Bristol-Myers Products Div. Sales Promotion Post Filled

Edward Gelsthorpe has been appointed director of sales promotion for the products division of Bristol-Meyers Company, New York. In his new position Mr. Gelsthorpe will be responsible for the coordination and execution of all sales promotion activities, including sales testing, packaging, display designs, and the liaison between the sales department and other departments involved in sales promotion problems on all of the company's products. Mr. Gelsthorpe joined Bristol-Myers in 1950 in the new product development department. He was later appointed director of specialty sales.

Bids Wanted

Ethyl alcohol, U.S.P., for fiscal year 1955, inv. 3759-A, July 6, Panama Canal Co., Procurement Officer, 24 State St., N. Y. 4, N. Y.

Gas, propane, 221 100-lb. tanks, liquefied, inv. 603, June 23, Contracting Officer, Aberdeen Proving Ground, Md.

Insecticide, DDT, 4,920 aerosol bombs, low pressure, inv. 2B-46188-R, June 25, Gen. Services Adm., Fed. Supply Services, Region 3, 7th & D Sts., S.W., Washington 25, D. C.

Paint, 624 gals. semi-gloss enamel, inv. DA-35531, June 29, Gen. Services Adm., Business Service Center, 114 Commerce St., Dallas, Tex.; 96 gals. paint drier, 28 gals. floor and deck enamel, varnish base, 600 gals. gloss interior enamel, 1,206 gals. semi-gloss interior enamel, inv. 2S-KC-33511, June 23, Gen. Services Adm., Fed. Supply Service, 911 Walnut St., Kansas City 6, Mo.

Soda ash, 20,000 lbs. powder, inv. 3723 A, July 1, Panama Canal Co., Procurement Officer, Procurement Division, 24 State St., N. Y. 4, N. Y.

Sulfuric acid, 4,000 tons, inv. CIVENG-85, June 22, Corps of Engnrs., District Engineer, Washington District, 1st & Douglas Sts., N.W., Washington, D. C.

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Essential Oils, Aromatics, Flavorings

Price activity in the essential oils market was rather limited last week. There was a continued upward trend noted in petitgrain oil which was advanced 10 cents per pound. Also moving toward higher levels was sandalwood oil, supplies of which have been reported as growing tighter. This oil was up 25 cents. Generally speaking, prices remained static although there was a possibility of price declines in several oils, most notably in oils of domestic origin.

Demand for citrus oils continued at a level which was below par for this time of the year. The cool weather which has prevailed over most the country to date has had an inhibiting effect upon consumer demand. It was expected, however, that the first spell of hot weather would see demand accelerated appreciably. Prices were steady on lemon oil while orange oil continued to react weakly in view of the large stocks on hand.

In the seeds and spices section, several items showed strength, on spot, last week. In this group were ginger, cassias, cinnamon and poppy seed. Jamaican and African ginger prices advanced with Nigerian splits up 1 cent in addition to a similar advance in No. 2 and 3 Jamaican ginger. Supplies were expected to continue to grow tighter as the year progresses in view of the small crop yields this year. Cinnamon Ceylon No. 2 advanced 3 cents per pound while "0000" grade was up 2 cents. Batavia cassias were upped ½ cent on spot reflecting the tension in producing areas in the Far East. Poppy seed was advanced in all qualities with Dutch poppys up 1¼ cent.

On the decline were Dutch caraway seed, which was reduced ½ cent per pound and Indian celery seed, down ½ cent. Black pepper was off 2 cents, while white held unchanged, as of late last week. Jamaican pimento declined 1 cent while Dalmatian sage was reduced 2 cents per pound.

Essential Oils

Lemon—The spot market was unchanged. Some trade sources reported some increase in demand but generally speaking, consumption has been disappointing when compared with previous years at this time. A spell of warm weather was expected to boost consumption levels considerably, however, and producers were marking time until this occurs, it was said.

Neroli—The spot market was unchanged in neroli oil last week. Prices at source were reported to be much higher in view of the situation in Grasse. The orange flowers from which neroli is distilled were about one month late this year. Distillation has only recently commenced and the crop size has been estimated at about 40 percent of that last year. Heavy rains and frost were reportedly responsible for the poor yield and the price of orange flowers has risen as a result, it was said. The fact that the crop will be small should result in the entire crop being sold, it was possible that there would not be sufficient material to satisfy the world market, even if demand is only fair.

Ocotea Cymbarum—The market for this important oil seems to be leveling out, and while some prospects for slight price advances exist, the major portion of the advance is probably passed. Production of the oil should increase for the next few months and during this period it should be possible to calculate a definite trend of the market. Large quantities have been purchased for forward delivery and as these stocks become available, pressure on the marekt should be relieved. Strength of the ocotea market has helped to bring about several other situations as well, one being a higher price for camphor sassafrassy. Spot quotations ranged from 90c. to $1.30 per pound.

Orange—There were no new developments in this market last week. Demand was still below the rate which usually prevails at this time but the situation was expected to improve with warmer weather, it was said. Prices continued to hold rather weakly.

Petitgrain—The spot market continued to firm on this oil last week. Quotations were advanced 10c. per pound and were heard at $3.25 to $3.70 per pound.

Sandalwood—The spot market advanced 25c. per pound on sandalwood oil last week. The current range was from $10 to $11.75.

Spearmint—A soft tone persisted in spearmint oil last week. Seasonal increase in demand has not been as great as anticipated at this time, it was said.

Aromatic Chemicals

Citral—There has been no change noted in this item. Demand was reported to be routine and prices were holding unchanged. The softening trend in lemongrass oil was expected to be reflected in lower citral prices but this has not occurred as yet.

Safrol—This item was reported to be quite firm in view of the short position of the various safrol bearing oils. The market was expected to continue steady for some time.

Miscellaneous

Caraway Seeds—The market was reported to be firmer abroad but consumers here continued to be interested only in hand to mouth buying, it was said. The long range outlook on caraway seed must be viewed in the light of the small carryover from last year and the fact that world demand was estimated to surpass supply this year. The business recession which the country has undergone over the past year, however, has had the effect of making consumers more hesitant to buy ahead of immediate needs. Spot prices were off ½c. per pound and were currently quoted at 15½c. per pound.

Cassia—The spot market was reported to be very firm on cassias last week. The worsening military situation in Indo-China with its repercussions on other countries in that area, has bolstered the market here considerably. Batavia cuttings were currently quoted at 16c. while shortstick, cracked was pegged at 17c. and longstick, at 18c.

Celery Seed—French celery was firm last week and Indian celery seed dropped an additional ½c. per pound. The crop was reported to be sizable this year in India and the spot market might see further price reductions, it was said. French seed was currently quoted at 45c. to 48c. while the Indian seed ranged from 16½c. to 17½c.

Cinnamon—The market, on spot, was quite firm in cinnamon last week. Ceylon No. 2 grade was up 3c. per pound to 47c. while "0000" grade advanced 2c. to 57c.

Clove—The spot market was unchanged last week. Prices ranged from 55c. to 56c. for the Madagascar while Zanzibar was quoted at 65c. to 66c.

The latest crop of clove spice that has come to the market from Zanibar is a large one running between 20-25 thousand tons. It seems to be the history of the article that two small crops generally follow a bumper harvest, and it is thus estimated that the next two crops will run from 6-8 thousand tons. The other primary source of clove spice, the island of Mada-

Price Trends

Advanced
Cassia, Batavia, all grades, ½c. per lb.
Cinnamon, #2, 3c. per lb.
"0000," 2c. per lb.
Ginger, Jamaica, #2 and 3, 1c. per lb.
Nigerian, split, 1c. per lb.
Oil, petitgrain, 10c. per lb.
Sandalwood, 25c. per lb.
Poppy seed, Argentine, 1c. per lb.
Dutch, 1¼c. per lb.
Polish, ¾c. per lb.
Turkish, ½c. per lb.

Reduced
Caraway seed, ½c. per lb.
Celery seed, Indian, ½c. per lb.
Pepper, black, Malabar, 2c. per lb.
Pimento, Jamaica, 1c. per lb.
Sage, Dalmatian, 2c. per lb.
Thyme leaves, French, 1c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 19, 1953
137.56	137.54	137.74	153.75

(*For Current Prices see page 9*)

Imports Detained by FDA

Week Ended June 11
New York

Cassia (5 lots), 591 bales: filthy.
Dill seed, 560 bags: filthy.
Ginger, 43 bags: filthy.
Mace (5 lots), 49 cases: filthy.
Marjoram, 21 bags: filthy.
Nutmegs (3 lots), 10 cases and 200 bags: moldy and wormy.
Origanum, 29 bales: filthy.
Pepper (black) (5 lots), 242 bags: moldy and insect bored.
Rosemary leaves, 176 bags: filthy.
Turmeric (8 lots), 549 bags: filthy.

For Late Market Developments, See Page 4

scar, follows the same production pat-rn, with an average yield per annum of 00 tons, varying each season from 1,000 4,000 tons. The next crops due in Zan-ar will be August-September; in Mada-scar, November-December, and both ll probably be small. Both clove produc-n and demand have increased greatly ce the end of World War II, with Indo-sia major purchaser, it was said.

Ginger—The spot market was firmer on th African and Jamaica ginger last ek. Nigerian split ginger advanced 1c. 24-25c. while Jamaica No. 2 and No. 3 ades were advanced a similar amount. e former was currently quoted at 31c.-., and the latter, at 30c.-31c.

The market for all types of ginger root and will continue to be very firm. From present appearances, the Jamaica crop will be a very small one, which accounts for the sharp price increase since the first of February. A similar situation with African ginger, which crop will not be as large as last year, has doubled its price during a course of sixty days. As there will be no new crop of Jamaica root for another ten months, and the African harvest just came in in early May, there is no prospect of relief for at least another year. Result will undoubtedly be continued high prices on all derivatives of Ginger, it was said.

Pepper—The spot market was firmer late in the week with prices quoted around 50c. per pound on black pepper, Malabar. White pepper, on spot, was priced at 65c., at that time.

Locally, selective interest in spots and nearbys, coupled with some covering of short sales for future deliveries provided the necessary demand to strengthen prices. However, buyers proved reluctant to buy ahead of immediate needs and it remains to be seen whether the Indian market will resume selling pressure in anticipation of the marketing of new crop Sarawak. To date there have not been any indications that the Sarawak crop was reaching shippers' hands in any volume but this should start within the next few weeks. Buyers continued to display caution awaiting further developments. White pepper has only declined moderately despite the steady decline in black pepper. A fair demand has kept spots on an even keel, and afloat stocks are only sparsely held. Some tightness could develop in July, prior to the arrival of new crop shipments, according to some trade sources.

Concerning red pepper, Birdseye Chillies are very scarce and no new stocks were reported enroute. Nigerian chillies also are growing very short. Gondars are the only peppers available that can be had reasonably, but are trending firmer. Crushing types are in good supply for this time of the year, it was noted.

Pimento—Jamaican pimento was off 1c. and was offered at 60c. to 61c. per pound. No Mexican pimento was reported available on spot but shipment prices were quited from 53c. to 54c.

Poppy Seed—Dutch poppy seed has firmed here and abroad due to the short crop last year and anticipated scarcity during the summer months. New crop offerings do not discount current levels.

Spot quotations advanced 1¼c. last week and quotations currently ranged from 20c. to 21c. Argentine poppy seed was up 1c. to 16½c. while Polisn seed advanced ¾c. to 18½c.-19c. and Turkish seed rose ½c. to 16½-17c.

Sage—Dalmatian sage declined 2c., on spot, and was offered at 33c. Italian and Cretan sage was unchanged.

Thyme Leaves—French thyme declined 1c. to 19c.-20c. Spanish material was steady at 10½c.-11c.

Vanilla Beans—The spot market here continued very firm despite some consumer resistance to current prices. Reports from Madagascar indicate that the crop will be short of world requirements and the market was expected to continue at high levels for the balance of this year, at least.

Consumer demand was expected to increase as the weather grows warmer, in view of the fact that very substantial quantities go into ice cream manufacture.

Trade Briefs

McKesson & Robbins, Inc., New York, has issued a booklet through retail drug stores encouraging students to take up pharmacy as a career.

Armour Laboratories, division of Armour & Co., Chicago, has granted $100,000 to the Michael Reese Foundation for polio vaccine study.

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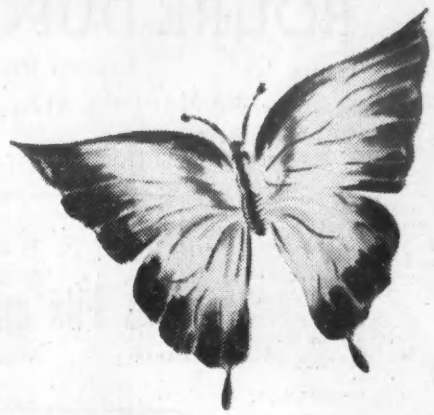

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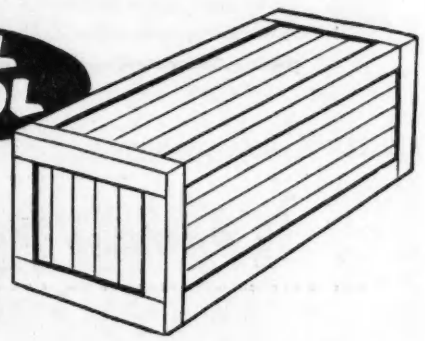

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Rhodia Establishes 'Alamask' Engineering Service Section

Rhodia, Inc., New York, which recently acquired the industrial "Alamask" reodorant division of E. I. duPont de Nemours & Co., Wilmington, Del., has established an engineering service section within the division.

This service will make available to industry trained specialists in the handling of air and stream odor pollution problems. The "Alamask" division produces a line of odor abatement and reodorant products for use in manufacturing operations where odor presents a problem.

Serving as chief of the engineering service section is H. C. Nichols, a chemical engineer with much experience in pollution control. He was formerly associated with Merck & Co., Rahway, N. J., and American Cyanamid Company, New York. Associated with the section too is Dr. Stanley A. Dunn, physical chemist, who will serve as research associate. Dr. Dunn comes to Rhodia from duPont's Jackson laboratory. Another chemist, David Bowlus, will serve as field technical sales representative. Formerly he was with duPont's New Brunswick works, where he was active in the original study of malodorous compounds.

Dodge & Olcott Unveils Three New Product Lines

Dodge & Olcott, Inc., New York, has developed a new series of masking compounds to cover the off-odor of phenolic preparations used in the process of sterilizing cartons and boxes manufactured for cakes and other baked goods. The company has also developed a line of cordial and liqueur flavors. At the same time, the firm has announced the development of a group of masking odors for fuel oil. Trial quantities and recommendations for specific uses of the three groups of new products are available on request.

Ingram & Bell, Ltd., to Move

Ingram & Bell, Ltd., expects to move its Quebec and Maritime branch to new and larger quarters at St. Catherine street west, corner of Bethune street, Montreal, on or about July 1. Representing an investment of about $250,000, the building will have two floors and a basement. Ingram & Bell, which has its main offices and plant in Toronto, manufactures, imports and distributes a wide range of pharmaceutical products.

Givaudan Has Publication Available Concerning Flavors for Baked Good

Givaudan Flavors, Inc., has announced the publication of technical bulletin B-1, "Flavors for Baked Goods." The bulletin contains information and suggestions on the application of basic flavoring ingredients, spice oil replacements and the u of vanilla specialties in baked produc The application of butter, citrus flav and rum flavors in baked goods is a discussed and additional data on c marin replacements is given. Copies the technical bulletin are available up request to Givaudan at 330 West 42 street, New York 36.

Lyon Recovering from Accident

Julian W. Lyon, New York essential gum and drug broker, is recovering fr a slight brain concussion, sustain through an automobile accident, in wh his sister-in-law was killed and his w and brother slightly injured.

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Protective Coatings Materials

The pig lead market declined last week owing to the unwillingness of the government to buy for stockpiling. As a result, monosilicate, red leads, litharge, and orange mineral were all off fractionally. White leads were unchanged in price. Demand for the latter continued seasonally good. Zinc pigments were unchanged, reflecting in part the continuing stability of the slab market.

Among other pigments, no price changes were reported. Titanium dioxide continued to move to active buying interest. Demand for cadmium colors was judged slow, with the result that producers were able to cover needs of consumers, although selenium remained scarce. Other dry colors were said to be under the influence of good demand, with buyers working from fairly low inventories, and buying primarily for actual needs.

Although methanol, formaldehyde, and pentaerythritol were lowered in price, the firmness of phthalic anhydride kept resin prices fairly steady. Large volume resins were subject to heavy competition, however, due to the great number of makers. Alkyd resins were on a competitive basis in many areas, resulting in a rather shaky undertone in pricing. Polyethylenes were stable, with demand good. Supply and demand for coumarone-indenes were said to be in a favorable balance.

It appeared to many sources last week that the plasticizers market was on the way to recovery from unsteadiness in pricing. It was believed that the di-iso-octyl phthalate market was less subject to shading than previously. A similar situation applied to dioctyl phthalate, where fewer instances of shading were evident. Sales for dioctyl adipate improved to some extent. Interest in sebacates was moderate, with prices steady and unchanged.

The market for natural resins was quiet, with no price changes reported. Supplies of Manila DBB copal were scarce at primary sources, but it was felt by suppliers here that stocks on spot in this country could take care of current buying interest. The Calcutta shellac market continued unseasonally strong and steady. Bleached grades were unchanged here at recently raised prices. Suppliers sharply raised prices for orange grades due to scarcity on spot and uncertainty of replacement.

The fillers and inerts market was dull and featureless. Prices continued unchanged. Argentine casein was still firmer last week, with limited offerings from primary markets. Spot and shipment prices advanced substantially. Gilsonite, manjak, and petroleum asphalt were quotably unchanged. Demand for chlorinated paraffin was fair.

Price Trends

Advanced

Casein, Argentine, 2½c. per lb.
Shellac, lemon, No. 1, 8½c. per lb.
No. 2, 7½c. per lb.
Superfine, 6½c. per lb.
TN, 6½c. per lb.

Reduced

Lead monosilicate, 0.2c. per lb.
Red, 95% Pb_3O_4, ¼c. per lb.
97% Pb_3O_4, ¼c. per lb.
98% Pb_3O_4, ¼c. per lb.
Litharge, ¼c. per lb.
Orange mineral, ¼c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	June 19, 1953
96.63	96.59	96.60	90.21

(*For Current Prices see page* 9)

Prime Pigments

Aluminum Paste, Powder—The market remained stable last week, and was not affected by price change. The Bureau of Census reports that 3,080,000 pounds of atomized and grained powder were shipped by manufacturers in April, as compared with 4,133,000 pounds shipped in March. The quantity of flaked powder shipped was 287,000 pounds in April, as compared with 290,000 pounds in March. Paste shipped totaled 1,053,000 pounds in April, compared with 1,006,000 pounds in March. Total shipments of aluminum products in April were 3 percent above March shipments.

Cadmium Colors — Prices continued without change. Selenium remained scarce, but present demand did not cause cadmium reds to be in short supply. Cadmium yellows and oranges were plentiful.

Chrome Colors—Consumer activity continued at good levels last week. Demand from the paint trade was said by one source to be about as good as during the comparable period last year. Prices remained steady and without change. Stocks were plentiful.

Earth Colors — Buying interest was hand-to-mouth, but producers reported a satisfactory volume of sales. Prices were stable and without revision. Present output and stocks kept well ahead of consumption.

Iron Blues—The market was quiet, with demand moderately good. Prices were unchanged.

Lead Pigments—Lead metal dropped ¼c. per pound last week, due to reluctance on the part of the government to buy for stockpiling at previously listed prices. Among the pigments, monosilicate reflected the decrease, declining 0.2c. per pound. Red leads, litharge, and orange mineral fully reflected the decline, dropping ¼c. White leads moved at an average rate for the time of year. Demand was generally steady.

Lithopone—Quotations were unchanged. Consumers showed interest primarily in prompt shipment to cover immediate needs.

Synthetic Iron Oxides — Inquiry from the paint trade was well sustained. Prices were without revision. Stocks were ample.

Titanium Dioxide — Large volumes of material continued to move to customers last week. Prices were unchanged. Reserves were adequate.

Zinc Pigments—Although the lead market weakened there was no indication of price change for slab zinc. Zinc dust was steady, and moving at a good rate. Oxides went to seasonally active demand. The supply position for pigments was said to be in a much more favorable balance than during previous months.

Synthetic Resins

Alkyds—There was little or no change in the current market picture. Competition was the keynote of trade over the week, as a large number of produces vied for consumer interest. The price position of most types was somewhat unsteady. Demand continued active, with consumption running above levels of a few months ago. Supplies were more than able to take care of inquiry.

Coumarone—Indenes—It was reported that a reasonably good balance was being maintained between supply and demand. Prices were unchanged.

Ester Gums—Demand for gum and wood rosin esters was moderately sustained last week, with the market firm in the face of good demand at export. Prices were unchanged.

Maleics—Trade was highlighted by continuing competition. Industrial demand was not as good as several sources had anticipated. Stocks were plentiful.

Phenolics—The market was featured by an excellent supply position. Prices were relatively stable. Demand for varnish resins continued active.

Polyethylenes—Prices were stable. Consumption continued to expand due to broadened end-use patterns. Supplies were sufficient enough to take care of existing consumer needs.

Polystyrenes — Quotations were unrevised. Consumption was thought to be slightly higher in several categories than levels established last year. Production was at a pace rated slightly ahead of current demand.

Terpenes—Consuming demand was well sustained, with listings unchanged. Present output and reserves were available to fill all consumer requirements.

Lacquer Materials

Dibutyl Phthalate—The market appeared firm to most observers last week, with prices unchanged. Consumer interest was chiefly for immediate needs. Supplies were ample.

Dicapryl Phthalate—Prices were steady and unchanged. One source reported that this plasticizer was moving at a better rate than some others more widely used.

Di-iso-octyl Phthalate—Although reports of shading persisted last week, many sources felt that the market was firmer than previously. It was believed

For Late Market Developments, See Page 4

CASE HISTORY
Another tough problem solved by an Emery Product
HOW EMERSOL® 9305 PRODUCED ARCHITECTURAL WHITES WITH BEST COLOR RETENTION

Because white enamels that *stay white* have a strong consumer sales appeal, this manufacturer made a thorough search for materials that would not yellow. After a comprehensive evaluation, he found that *Emersol 9305* Double Distilled Liquid Fatty Acid gave the best *color retention* of all materials tested. At the same time the required *4-hour drying time*, gloss retention, and other specifications of hardness, water and alkali resistance, were met fully.

The medium oil length alkyd itself was *lighter in color* than those made from competitive materials. Other plus-features of Emersol 9305 verified by this comprehensive evaluation, were its *low titer*, which facilitated handling and storage, and its high degree of *uniformity* between shipments.

To get whites or pastels with maximum color retention, profit from the experience of others and use Emersol 9305, an Emersol-processed liquid fatty acid, *tailor-made* for high quality alkyd resins.

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In many paints and varnishes, Piccoumaron Resins are used in combination with chlorinated bodies and with various rubber derivatives where softer grades of resins are used as plasticizing mediums.

The softer grades, likewise, are useful in types of dark coatings based on stearine pitch, cottonseed pitch, and the like.

Piccoumaron Resins vary from liquids through viscous liquids, and tacky solids to high melting point brittle solids, and in color from a deep reddish brown to a pale yellow shade. They are thermoplastic and do not become infusable on heating. Weights average 8.5 to 9.2 lbs. per gallon.

NUMBERING SCHEDULE PICCOUMARON RESINS

	COLOR	Light 1½-3½	Medium 4-6	Reddish 6-9	Dark 9-12	Extra Dark 12-16	Extra Dark 12-16
MELTING POINT	Liquid Resin	480	470	440	400	430	
	10°C— 15°C	458	420	448	408	438	XX-10
	30°C— 35°C	457	427	447	407	437	XX-25
	40°C— 45°C	456	426	446	406	436	XX-40
	50°C— 55°C	455	425	445	405	435	XX-55
	65°C— 70°C	453	423	443	403	433	XX-70
	80°C— 90°C	452	422	442	402	432	
	96°C—105°C	450	420	440	400	430	XX-100
	110°C—120°C	450H	420H	440H	400H	430H	XX-115
	120°C plus	450EH	420EH	440EH	400EH	430EH	

SPECIAL GRADES—Special grades of Piccoumaron Resins can be made when required.
The colors shown are on the Coal Tar Resin Color Scale. The melting points are by the ball and ring method.

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3. 8 lb extra light pure French varnish.
4. Orange shellacs—all grades.

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that the market was currently in the process of straightening itself out price-wise. Listings held without change.

Dioctyl Adipate—Sales were said to have improved to some extent during the week. Prices held without change.

Dioctyl Phthalate—There was still evidence of material being offered at below existing schedules. Such instances were believed to be less frequent than previously. The primary reason for the unsteadiness was the large number of producers currently in the market.

Sebacates—Demand was moderately good. Prices held firm, primarily due to the current stability shown by sebacic acid.

Natural Resins

Copal Gum—DBB continued scarce at primary sources. Otherwise, suppliers here felt that there was enough of all types to go around. Domestic demand was quiet and spotty. Prices for all grades continued without change and firm.

Dammar Gum—Suppliers indicated that there was enough of all grades to fill consumer requirements. Demand was spotty, chiefly for immediate needs. Prices were steady and unrevised.

Shellac—The Calcutta market displayed strength early in the week, then tapered off and became steady. Most sources here felt that the market was continuing to show unseasonal strength. Recently increased prices for bleached grades were unchanged and firm last week. Suppliers here were sharply raised prices for orange grades, primarily due to scarcity of stocks on spot. Demand was spotty, depending upon the consuming industry. Bleached grades were believed to be in adequate supply.

Fillers and Inerts

Asbestos—Consumer interest continued to run below last year's levels. However, buying demand was fair to moderate. Prices of long standing held steady and unchanged.

Calcium Carbonate—Nothing out of the ordinary occurred in trade last week. Prices were stable both for chalk and whiting. The paint trade withdrew sizable quantities, for immediate needs.

Gypsum—The market was quiet. Price schedules were unchanged.

Talc—Market was featureless. Prices were steady. Consumers purchased material in small amounts, to cover actual needs.

Miscellaneous Materials

Abietic Acid—Demand for crystals held up well, with good call noted from rubber reclaimers and paper sizers. Supplies were plentiful. Prices held without change at listings of long standing.

Casein—The Argentine market was very firm last week, with suppliers here finding it difficult to obtain offers from producing markets. With IAPI having once again substantially raised the floor price, it was expected that the market would go still higher. Offerings on spot here were very limited, with material ranging from 25½c. to 26c. per pound, duty paid, depending on quality. July-August shipment was placed at 24c. to 24½c. per pound, same basis. Offers from France were almost negligible, with some indication of limited amounts available for late July and August shipment.

Chlorinated Paraffin—Prices were unchanged. Demand was thought to have lessened to some extent over the past few weeks. Current interest was described as slow to fair. Stocks were plentiful.

Graphite—Prices of long standing continued unrevised. Consuming interest was average for the time of year. Supplies were readily available for prompt shipment.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri.	Mon.	Tues.	Wed.	Thur.
Drums—					
K					$7.55
M	$7.53	$7.60			7.58
N		7.57	$7.70		7.67‡
WG	7.63‡	7.72			7.76‡
WW	7.77‡	7.77		$7.76	7.76‡
Bags—					
G				7.33	
K		7.40			
M	7.30				
N	7.60	7.45			7.41
WG		7.55			7.54
WW	7.80	7.60			

Tankcars (for week ended June 11)—
WG $7.245‡, M $7.125, K or better $7.15.

Sales, USDA
1,222* 671* 693* 556* 690*

New York
(per 100 lbs., c.l., Friday)
WW $8.75, WG $8.65, N $8.60, B through M $8.45

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.511‡	.51	.508‡	.51	.51
Sales	48,000¶†	8,000¶†	40,000¶†	16,000¶†	16,000¶†

New York, Friday, per gal. 7 lbs., tankcars, 61c., l.c.l. 73c.

*Drums equivalent. †Tankcars. ¶Gallons. ‡Average price.

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Sherwin-Williams Offers New Leaded Zinc Oxide

A new type of leaded zinc oxide which is reportedly more efficient in paints than regular leaded zinc oxide is being offered by the pigment, color and chemical division of the Sherwin-Williams Company. The new product, known as "Ozlo 18M," is described as a co-fumed leaded zinc oxide composed of 82 percent zinc oxide and 18 percent monobasic lead sulfate.

It is said to be more efficient than the regular leaded zinc oxides because it contains a higher percentage of the lead in an active or basic form. Where the regular leaded zinc oxide contains only 20 percent of the lead in the active form, "Ozlo 18M" contains 50 percent in the active form. Thus, Sherwin-Williams points out, 60 percent less lead pigment needs to be used to obtain the same amount of available or active lead in the paint.

Controlled reactivity is obtained by co-fuming the lead and zinc into a unit pigment so that each metal acts as a blocking agent for the other, giving controlled formation of metal soaps and the optimum ratio of lead soaps to zinc soaps in the paint film.

Literature describing the use of "Ozlo 18M" and samples of the material are available from the pigment, color and chemical division of the Sherwin-Williams Company, 300 West Lake street, Chicago 6, or 100 Park avenue, New York 17.

Gen'l Electric Establishes New Units in Plastics Department

Two new units have been established in the General Electric Company's plastics department at Pittsfield, Mass. A sales planning and promotion unit will be headed by Anthony F. Forni as manager of sales planning and promotion. A technical service unit has been created with Harold M. Patterson as its manager.

Mr. Forni came to General Electric in 1946 from Firestone Steel Products Company. Prior to his present appointment, he was sales development supervisor of G-E mycalex and extruded products. Mr. Patterson joined G-E as a product engineer in Pittsfield. His most recent post was as manager of engineering for the plastics department.

Enjay Names Brian Casey

Enjay Company, Inc., New York, has appointed Brian Casey as a technical sales representative in the Paramin additives sales division. Mr. Casey was previously associated with the petroleum industry in product development in the field of lubricating oils.

Western N.Y. Paint Technicians Hold Annual Golf Outing June 26

The Western New York Paint and Varnish Production Club will hold its annual golf outing June 26 at the Niagara Frontier County Club near Youngstown, N. Y. Golfers will tee off by 9 a.m. Two golf cups will be among prizes awarded. A roast beef dinner will follow the golf tournament.

Trade Briefs

J. Harold Wright of Spencer Kellogg & Sons, Inc., has been elected first vice-president of the Buffalo chapter of Delta Nu Alpha transportation fraternity.

General Electric Company, Pittsfield, Mass., has appointed Jack E. Bolt application engineer in the phenolics engineering unit of the company's chemical division.

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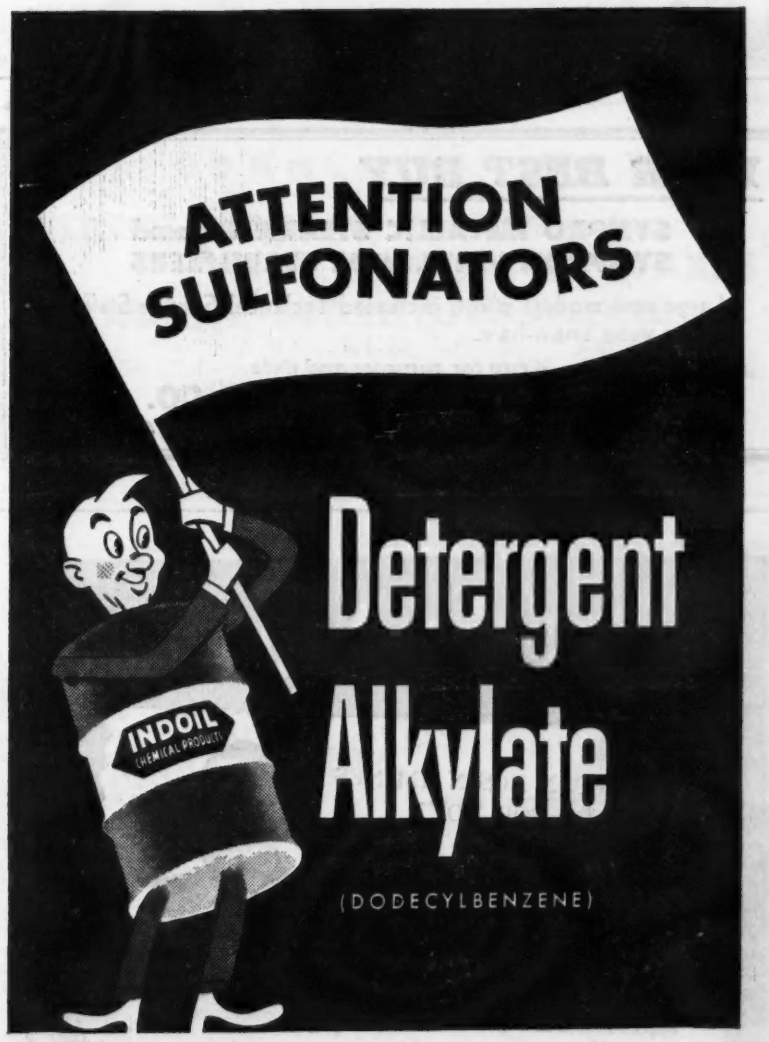

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Benelux Countries Ease Their Import Restrictions

The Benelux countries—Belgium, the Netherlands and Luxemburg—have freed most commodities for import from the United States and other dollar areas without quantitative restrictions, the Bureau of Foreign Commerce reported last week.

The Netherlands government has estimated that items covered on the common list of freed commodities represents about 85 percent of Netherlands imports from the United States in 1953. Although no corresponding estimates have been made for Belgium and Luxemburg, their percentage of liberalized US imports probably is close to that of the Netherlands.

Among the commodities which now may be freely imported from the dollar areas are many types of oilseeds and cakes, tallow, oleomargarine, gasoline, vaseline, a large number of industrial and other chemicals, mineral dyes, casein, gelatin and certain fertilizers.

Burr, duPont Pigments District Manager, Retires

Reuel S. Burr, former southeastern district sales manager for the pigments department of E. I. duPont de Nemours & Co., has retired after forty-seven years with the company. Mr. Burr had directed activities of the Philadelphia office for nineteen years.

His record with duPont dated from 1907, the year in which he started as an office boy at the Harrison Brothers & Co. plant at Grays Ferry which duPont bought in 1917. He was made a clerk at the plant and also worked as a stenographer before becoming assistant to the sales manager. After World War I he was made a pigments salesman in the Philadelphia area. Mr. Burr became southeastern district sales manager in 1935.

Naftone's West Coast Sales Operation Headed by Martin

James S. Martin, until recently industrial sales manager of the American Marine Paint Company, has joined Naftone, Inc., New York, as sales manager of its west coast operation. During World War II, Mr. Martin was a paint inspector for the United States Maritime Commission. Following the war he became associated with the pigment department of E. I. duPont de Nemours & Co. as a west coast representative. In his new affiliation with Naftone, Mr. Martin will make his headquarters in San Francisco.

Glidden Promotes Leedy

Glidden Company, Cleveland, Ohio, has appointed Douglas C. Leedy manager of its metropolitan branch at Alhambra, Calif. In his new capacity, Mr. Leedy will also be acting supervisor of Glidden's Los Angeles branches, including Huntington Park, Long Beach and North Hollywood. Mr. Leedy joined Glidden in 1946. His most recent position has been as sales sueprvisor in Glidden's southern California territory.

Spencer Kellogg Appoints

Harold Heard has been appointed controller of Spencer Kellogg & Sons, Inc., Buffalo, N. Y., to succeed George M. Ebert, who has resigned. Mr. Heard was formerly associated with companies in the textile field.

New England PVLA Sets Outing For June 25 at Andover, Mass.

The New England Paint, Varnish & Lacquer Association has scheduled its annual outing for June 25 at the Andover Country Club, Andover, Mass. The event will feature golf throughout the day and softball and other contests in the afternoon. Lunch will be served from 11:30 a.m. until 2 p.m. Dinner has been set for 7 p.m., with the annual election to follow at 8 p.m. Reservations are required.

National Lead Testing Station Opens Headquarters Building

National Lead Company, New York, has officially opened a new headquarters building at its Sayville, L. I., experimental testing station. The new building houses offices and paint shops for the station. The Sayville station was established in 1917 to provide facilities for impartial study of various paint materials. Written records of paint materials behavior at the station total more than 500 volumes.

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Oils, Fats and Waxes

Trading in oils and fats last week lacked snap and continued restricted to prompt requirements. While demand for edible grades was light, the market remained steady, reflecting the strength of soybeans. Soybean oil was firm and unchanged. Cottonseed and corn oils also were steady at former levels. Peanut oil was inactive and offered freely. Lard fluctuated drastically, closing fractionally lower.

Coconut oil rallied, advancing fractionally, with the higher cost of copra. Improved demand for copra from Europe advanced shipments $5 per ton.

Animal oils were quiet and easy, due to further weakness in tallow, which declined slightly. Export business continued slow and with soapmakers out of the market, increased selling pressure was evident for all grades. Greases were unchanged due to some short covering for prompt delivery.

Linseed oil was advanced sharply as a result of the lower linseed meal market and three month extension of CCC's present price policy to October 31 for the sale of flaxseed and linseed oil. Prices of oil advanced 1 cent per pound from the low point of the week previous. Trading, however, was light and confined to fill-in needs. Tung oil continued inactive and tankcars were available at slightly lower levels. Stocks of oiticica oil for prompt delivery were limited and the market was firm. Refined fish oil continued unsettled and quotations were off fractionally. No. 1, Brazilian castor oil was firmer and fractionally higher.

Higher cost of soybeans boosted meal about $5 per ton, while linseed meal was off $2 per ton. Cottonseed meal was firm and unchanged and peanut slightly higher, up 50 cents per ton.

Price Trends

Advanced

Acid, linseed fatty, ½c. per lb.
Cocoa butter, 10c. per lb.
Copra, $5 per ton.
Oil, castor, No. 1, Braz., ¼c. per lb.
Coconut, crude, ⅜c. per lb.
Linseed, 1c. per lb.
Peanut meal, 50c. per lb.
Soybean meal, $5 per ton.

Reduced

Lard, ⅜c. per lb.
Linseed meal, $2 per ton.
Oil, fish, ref., ½c. per lb.
Peanut, crude, ⅛c. per lb.
refined, ⅛c. per lb.
Tung, ¼c. per lb.
Tallow, ⅛c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	June 19, 1953
109.85	108.12	112.77	91.78

(For Current Prices see page 9)

Vegetable Oils

Castor—Business was reported light and spotty. Domestic oil was held at former quotations. No. 1 Brazilian was steady and unchanged at 15½c. per pound, tankcars, New York, prompt delivery.

Coconut—Market was stronger with the advance of copra. Crude was lifted to 13⅜c. per pound, tankcars, f.o.b. Pacific coast, for June and 12⅞c., July. Tankcars sold at 14c. per pound, New York basis for June.

Corn—Crude continued firm and was sold at 15c. per pound, tankcars, f.o.b. mills, with 15⅛c. asked. Trading was spotty, but offers also were light. Refined oil was quoted at 18¼c. per pound, tankcars, New York basis.

Cottonseed—Trading in bleachable cottonseed oil futures was restricted last week as the trade preferred to await the price support for new crop oil. Market backed and filled, with old crop months slightly lower while new crop deliveries scored slight gains. Most of the trading took place in the July delivery.

Market did not follow the sharp advance in soybeans or wide fluctuations in lard, though cash oil was steady with crude cottonseed oil and higher soybeans. Refined oil was maintained at 18⅛c. per pound, tankcars, New York, prompt delivery.

Crude cottonseed oil was in light demand but offerings were limited and well held. In the southeast, tankcars were quoted nominally at 14¾c. per pound, f.o.b. mills. Some trading was reported at 14⅜c. in the Valley and 14⅛c., Texas.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended June 18 follow:—

	Sales	Cents per pound High	Low	Close
July	79	16.50	16.00	16.31S
September	21	15.35	15.11	15.00@15.12
December	15	14.30	14.20	14.27@14.34
1955				
March	31	14.40	14.26	14.38S
May	1	14.40	14.40	14.32@14.41

Total sales, 147 contracts.

Memphis.—Crude cottonseed oil held at 14⅜c. per pound, tankcars, f.o.b. mills and crude soybean oil 14¼c., Decatur. Cottonseed meal nominal at $65 to $66 per ton, Memphis. Cottonseed hulls, $5.50 per ton, Memphis, with demand fair.

Linseed—Further weakness in linseed meal, coupled with CCC's extension of the support program of the 1953 crop for three months at present price levels until October 31, stiffened the linseed oil market. Prices scored a net gain of 1c. from the previous week's low. Raw oil was advanced to 15½c. per pound, tankcars, Minneapolis, for June, July and first half August delivery and to 16¾c. New York delivery. Second half August was raised to 13c. and September forward to 12½c. per pound, tankcars, Minneapolis basis. Trading was reported slow and limited to fill-in needs, while withdrawals against former contracts continued in good volume.

Department of Agriculture announced that CCC will continue its present price policy for the sale of flaxseed and raw linseed oil until October 31 for domestic use. Under the three-month extension of the present pricing method, flaxseed and linseed oil will be offered for domestic use at not less than the market price or the 1953 support price, whichever is higher.

Minneapolis.—There was very little interest in both old-crop and new-crop linseed oil the past week. Only small fill-in orders for nearby were noted. Official tankcar basis on raw oil was raised to 15.5c. a pound when it was learned prices would not be cut on government-owned flaxseed and linseed oil on Aug. 1, as was scheduled. The Agriculture Department announced it will continue its present pricing policy through Oct. 31, 1954. Under this three-month extension, the Agriculture Department will keep offering flaxseed and linseed oil at market price, or at the 1953-support—which ever is higher. The 1953 support on flaxseed average $3.79 a bushel. This year's support (which goes into effect July 1) calls for a 6⅝c.a-bushel drop from the 1953 support. In the Minneapolis market, meanwhile, raw oil in tankcars for June-July and first half August shipment was quoted at 15.5c. a pound, f.o.b., Minneapolis; second half August, 13c., and September forward, 12.5c. or less.

Shipments of linseed oil, in pounds, were as follows:—

	1953-54	1952-53
Past week	6,900,000	7,200,000
Since Sept. 1	249,780,000	271,530,000

Flaxseed — Trading slow. Market steady and unchanged.

Minneapolis.—Trading activity was dull in the cash flaxseed market as several crushers signed toll-crushing pacts with the Commodity Credit Corp. to crush government-owned flaxseed. Purchases of seed in the "free" spot cash market totaled only 3 cars. To-arrive booking ran to 7 cars and 11,000 bushels in varied-sized lots out of store. Bids on No. 1 seed held steady at $3.85 a bushel, delivered Minneapolis. Arrivals of flaxseed continued heavy, a good share applying on CCC account. This seed was coming to Minneapolis terminals for cleaning and being shipped to Duluth for filling export commitments. Receipts of flaxseed for all acounts last week totaled 854 cars, with 715 cars going to CCC. This compared with the previous week's run of 798 cars and 315 cars a year ago.

Receipts and shipments of flaxseed, in bushels, were:—

	Receipts 1953-54	Receipts 1952-53	Shipments 1953-54	Shipments 1952-53
Past week.	1,494,500	535,500	458,500	49,300
Since Sept. 1.	21,060,400	14,091,200	4,131,300	2,829,150

Oiticica—Offerings were light and market firm due to strength of replacements from Brazil. Tankcars were maintained at 17½c. to 17¾c. per pound, New York, prompt delivery, as to seller. August forward was quoted at 17⅜c. Drums were steady, ranging from 19c. to 19½c. per pound, depending upon quantity.

Olive—Business was restricted to fill-in needs. Prices were without change and steady at $2.15 to $2.25 per gallon, drums, duty paid, spot as to quality and quantity.

Palm—Trading was quiet. Prices were unchanged at 12.4c. per pound, drums, and 11¼c., tankcars, prompt delivery.

Peanut—Crude was easier and quoted at 16⅝c. per pound, tankcars, f.o.b. mills, prompt delivery. Refined oil was lower at 20⅜c. per pound, tankcars, New York delivery. The government offered peanuts for sale to produce 24 tankcars of oil last week.

Rapeseed—Trading was quiet, but tankcars of refined oil were well held at 17c. per pound, New York, prompt delivery.

Soybean—While trading was limited last

For Late Market Developments, See Page 4

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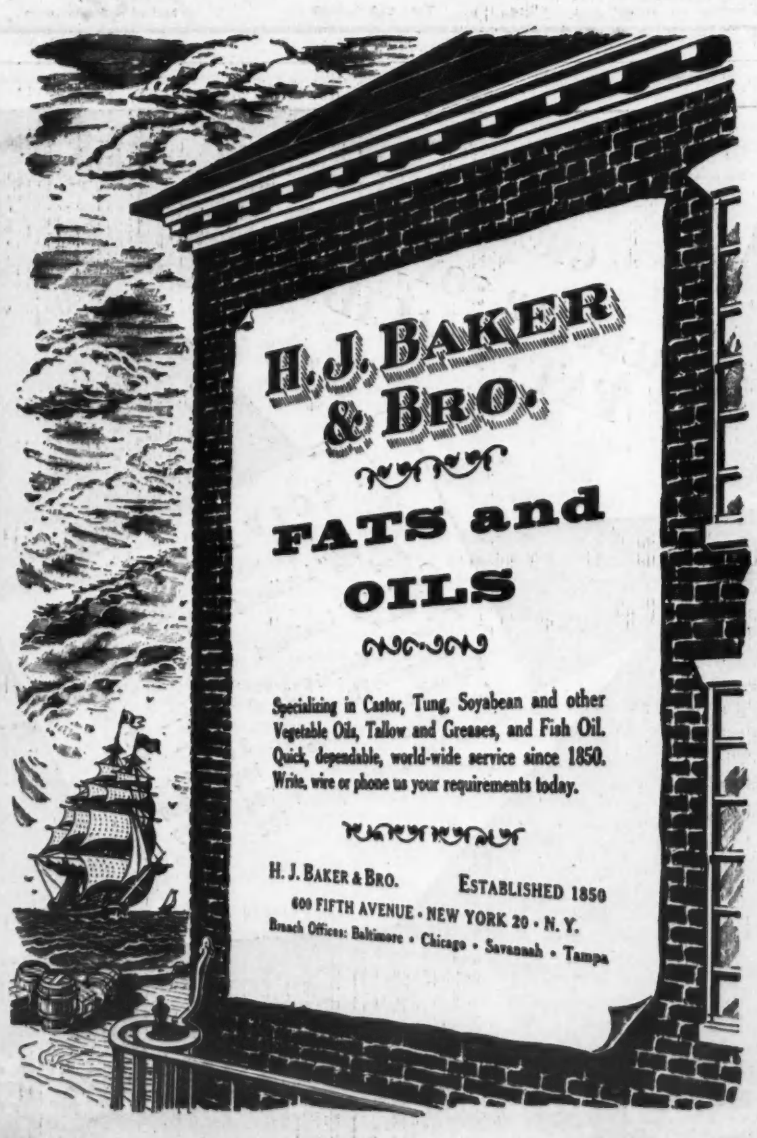
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week, the market remained steady, with the strength of beans. Crude was well held, with sales at 14¼c. per pound, tankcars, Decatur, June delivery; 14⅛c., July 14c., August, October-December was 11c. bid and 11⅛c. asked. Refined salad oil was quoted at 17c. per pound, tankcars, New York basis.

Sales and prices of crude soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended June 18 follow:—

	Sales	Cents per pound—High	Low	Close
July	22	14.22	14.13	14.15S
September	29	12.55	12.20	12.19@12.25
December	8	10.96	10.84	10.84@10.90
1955				
March	22	11.04	10.82	10.91@10.98

Total sales, 78 contracts.

Tung—Quiet demand created an easier tone and prices were slightly lower. Tankcars were quoted at 22⅜c. per pound, New York, for prompt and forward delivery. Drums ranged from 24c. to 24½c. per pound, depending upon quantity.

Los Angeles.—Coconut oil higher. Soybean oil steady and unchanged. Fair: Following were tankcar prices, f.o.b. Los Angeles, unless otherwise specified:—

Castor, No. 1, 21c. per pound, l.c.l., drums included. No. 3, 20¾c. per pound, same basis; dehydrated, bodied, 25.6c. per pound, same basis; dehydrated, unbodied, 24.1c. per pound, same basis. Coconut, crude, 13½c. per pound, nominal. Corn, crude, 15c. per pound, midwest; refined, 18⅞c. per pound. Cottonseed, crude, 14¾c. per pound, asked, California; Refined, 17¾c. per pound. Linseed, 16½c. per pound. Peanut, crude, 16¾c. per pound, asked, f.o.b. mill; refined, 21c. per pound, asked. Soybean, crude, 14¼c. per pound; refined, 17½c. per pound. Tung, 22⅜c. per pound, f.o.b. New York.

Miscellaneous

Castor Beans—Shipments were quotably unchanged and steady at $115 per ton, f.o.b. Brazilian ports.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:—

	Pounds—Beans	Oil
Last week	4,735,300	1,000,000
Previous week	3,862,350	1,364,000
Corresponding week, 1953.	1,047,900	893,200
Total this year	51,546,800	15,070,000
Corresponding period, 1953.	58,500,150	61,611,900

Cocoa Butter—A firmer tone prevailed and prices were advanced to $1.17 per pound. The market, however, was more or less nominal.

Copra—As a result of increased European interest, the market was stronger, advancing to $172.50 per ton, c.i.f. Pacific coast, prompt shipment.

Fats and Greases

Greases—This market was unchanged and steadier than tallow due to short covering for prompt shipment abroad. Domestic business continued inactive. Yellow grease was quoted 6⅛c. per pound, tankcars, delivered; house, 5⅞c.; brown, 4⅝c.; choice white, not all hog, was nominal 7¼c., and all hog, 9¼c. to 9½c., same basis.

Lard — This market dropped sharply, but rallied, regaining most of the decline. Cash lard was off fractionally, closing at 16¼c. per pound, drums, Chicago.

Oleo Oil—Buying interest lagged and the market was dull and featureless. Acidless was entirely nominal at 19½c. per pound, drums, prompt delivery. Oleo stearine also was nominal at 15¼c. per pound, barrels, prompt shipment.

Tallow—Increased offerings and quiet demand created an easier tone and quotations were off ⅛c. per pound. Export business was light and domestic demand continued inactive. Edible tallow was weaker and nominal at 11¼c. per pound tankcars, delivered. Fancy bleachable was lower at 6¾c. per pound, tankcars, delivered; extra, 6½c.; special, 6¼c. and No. 1, 5⅞c. per pound. Short covering and light stocks resulted in sales of No. 2 up to 6c. per pound, same basis.

Fish Oils

Cod — Business continued inactive. Prices were without change and nominal. Tanked oil was quoted at 9⅝c. per pound, drums, exdock. Offerings were not liberal, but buying interest also was lacking. Spot stocks were quoted at 10½c. per pound, drums.

Refined—Continued quiet demand further unsettled this market and tankcars of light pressed oil were lower at 10½c. per pound, New York basis, in some directions. Trading in crude menhaden continued inactive and was nominal. Tankcars were unchanged at 7c. per pound, Atlantic coast and 7¼c., Gulf ports.

Production of menhaden oil in April amounted to 286,990 gallons, bringing the total during January-April inclusive up to 361,840 gallons, compared with 252,800 gallons for the same period last year.

Los Angeles.—Trading in domestic crude oil was confined to two cars of tuna which moved at 5½c. per pound, f.o.b. Los Angeles. Supplies continued limited although landing receipts have shown slight improvement. The mackerel catch for the season remains approximately one-tenth of that for the preceding year. Menhaden fishing continued light off Gulf points with oil at 7¼c. per pound, asked.

Fatty Acids

Trading was reported limited to moderate quantities for prompt needs. Oleic, stearic and tallow acids were steady at the recent price reduction. Coconut continued quiet and unchanged. Vegetable fatty acids were maintained at prevailing quotations and reflected the steadiness of basic oils.

Cake and Meal

Cottonseed Meal—Supplies of free cottonseed meal in the southeast were comparatively light and most sellers held supplies for local demand, and asking higher prices than the Mississippi Valley region. Meal 41 percent was offered at $65 per ton Memphis for June shipment and $73 Georgia-Carolina mills.

Linseed Meal—Quiet demand and increased offers, resulted in lower prices.

Minneapolis.—Linseed meal prices continued to soften steadily as some crushers started to toll-crush government-owned flaxseed, thereby throwing more meal on the market. Extracted linseed meal, 36 percent protein, was quoted around $58 to $59 a ton, bulk, in carlots, for nearby shipment. Expeller meal, 32 percent protein and better, was priced around $5 a ton higher. Buyers were very cautious on commitments, taking supplies as needed despite the lower quotations. Shipments were moderate.

Shipments of linseed meal, in pounds, were as follows:—

	1953-54	1952-53
Past week	6,180,000	7,500,000
Since Sept. 1	542,770,000	459,520,000

Peanut Feed Meal—Last week the government offered peanuts for sale to produce approximately 1,150 tons of meal. Demand was somewhat better although prices were strong. Old process meal 45 percent was sold at $83.50 per ton sacked f.o.b. Georgia points for June and July shipment. Demand was principally from local manufacturers.

Soybean meal—Market was strong following a fairly good demand and higher asking prices. Meal 44 percent was nominal at $92 to $93 per ton basis, Decatur and $96 basis Mississippi Valley for June shipment. Small quantities of new crop meal have been sold in the Valley at $60 per ton bulk, October-November shipment.

Waxes

Beeswax—Firmness of crude grades kept the market in a steady position. Trading was limited to actual needs. Prices were maintained at former levels.

Candelilla—Volume of sales was not improved by the price reduction of 10c. per pound a week ago. Demand continued light and spotty. Crude was quoted at 64c. to 66c. per pound and refined, 67c. to 69c., depending upon quantity.

Carnauba—Quietness prevailed in this market. Consumer interest continued slow. All grades were quotably unchanged and more or less nominal. No. 3 Ceara crude was quoted at 82c. to 83c. per pound and refined, 84c. to 90c. per pound, as to quantity and quality. No. 1, Ceara yellow was unchanged at $1.12 to $1.14 per pound spot.

Ouricury—Demand was quiet, but light stocks of refined were maintained at 99c. to $1 per pound, as to seller.

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3—American Tool 60" S/S Centrifugals, Center slung.
1—American Tool 42", suspended type, S/S basket Centrifugal, direct connected 40 HP AC Motor.
1—Bartlett & Snow Jacketed Closed Agitated Kettle, 1800 gal., 10' dia. x 4'.
1—Sharples #C27 Super D Hydrator, S/S.
70'—Swenson Walker Continuous Jacketed Crystallizers, 20' sections.
1—Buflovak #67 Rapid Circulator, Triple Effect Evaporator, 1830 sq. ft. total.
8—Sperry 18"x18" iron recessed Filter Presses, 18 chambers.
1—Sperry iron 24 x 24 plate & frame Filter Press, 24 chambers, 1—½" cake.
1—Shriver, Aluminum, 36 x 36, plate & frame Filter Press, 33 chambers.
3—Sperry iron 36x36 recessed Filter Press, 100 chambers, 2" cake, hydr. closure.
1—Baker Perkins 200 gal. jacketed mixer, Sigma Blades.
1—Monel Enzinger Filter, jacketed, 8 leaves.
2—Baker Perkins "Ter Meer" Continuous S/S Centrifugals, 12" baskets, XP motor.
2—Stainless Solid Bowl Continuous Centrifugals, 30"x40" & 21"x23".

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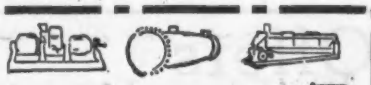

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Kettles: st. steel agit., 50 gal., 125 psi.
Rotary Cutter: Ball & Jewell #1½, 20 hp.
Clarifiers: De Laval 84-51 motor dr.
Press: Davenport 3-A, Durimet con.
Mixer: Simpson 36" Intensive.
Powder Mixers: 100 to 2,000 lbs.
Filter Presses: 7" to 24", Sperry, Shriver.
Dough Mixers: Single and double arm.
Colloid Mills: Premier and Eppenbach.
Vibrators: Syntron model F22, 220 volt.
Centrifugal: Tolhurst 32", rubber covered.
Evaporator: 60 sq. ft., type 316 stain. steel.
Vacuum Pumps: Stokes, Nash, Beach-Russ.
Heat Exchanger: Karbate 16.5 sq. ft. in area.

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COMPLETE CRYSTALLIZING & FILTERING UNIT INSTALLED 1951. WILL SELL AS UNIT OR SEPARATELY.

Swenson Continuous Vacuum Cooling Crystallizer of Rubber Lined Steel and S.S. Construction. Vacuum Cooling Body 3'-6" x 11'-0". Crystallizing Body 5'-0" x 10'-0". W/Piping, Circulating and Vacuum Pumps w/Controls.
Feinc 6'-0" dia. Horiz. Type 304 Stainless Steel Filter w/Vacuum Pump.
Nash H-6 Vacuum Pump.
Direct Heat Rotary Dryer 4' x 30' Stainless Steel Lined.
Shriver 30" Four Eyed, Closed Delivery 18 Chambers C.I. Filter Press—Hydro Closure.
Horiz. Stainless Steel 2100 gal. Storage Tank.
Two 10,000 gal. Steel Mixing Tanks w/Turbo Agitators and Drives.
Kettles, Sifters, Tanks, etc.

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New York 12, N. Y. GRamercy 5-6680

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We defy any dealer in the Metropolitan Area to prove that they have a larger stock of processing equipment than R. Gelb & Sons, Inc., Union, New Jersey.

DIRECTIONS:

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35 minutes by bus from New York City Port Authority Bus Terminal.

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PARTIAL LISTING OF EQUIPMENT SHOWN BELOW:

1—Tolhurst 40" Suspended Perforated Stainless Steel Centrifuge with Plow and Motor.
1—Buflovak Stainless Steel Double Drum Dryer, 6" x 8".
1—Buflovak Chrome Plated Twin Drum Dryer, 24" x 24".
7—Buflovak Single Door Vacuum Shelf Dryer, 13 shelves.
1—Buflovak Type 347 Stainless Steel Rotary Vacuum Dryer, 5' x 20'.
1—Combustion Engineers Stainless Steel Jacketed Autoclave, 500 gal.
1—Patterson Kelley 75 gal. Steel Jacketed Reactor, 90 psi.
10—New 50 gal. Pfaudler Glass Lined Kettles.
8—2500 and 4000 gal. Stainless Steel 316 Vertical Tanks.
2—Tolhurst Solid Curb Stainless Steel Centrifuge, 20" and 26", Perforated Baskets.
1—Lummus Stainless Steel 360 sq. ft. Heat Exchanger.
1—Swenson-Walker Type 316 Jacketed Crystallizer, 4-10' sections.
1—24" x 13' Aluminum Bubble Cap Column, 12 trays.
1—Day 150 gal. Double Sigma Blade Jacketed Mixer, Stainless.
1—Devine 3 shelf Vacuum Dryer, Stainless Steel.

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Machinery and Equipment

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Stokes 2'x6' Rotary Vac. Dryer.
Devine #12 Vac. Shelf Dryer, 40"x42".
5 x15 Rotary Kiln brick lined complete.
2—Allbr Nell 4 x9 Atmos Drum Dryers.
1—Buffalo Vac. Drum Dryer, 24"x20".
6—Steam, gas & elect. Dryers.
8—Rotary Dryers, Direct & Indirect. Also Jacketed & Steam Tube.
New Rotary Dryers, Kilns and Coolers

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4—Tolhurst 40" Suspended Type Centrifugals Bottom Discharge.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
11—Sharples No. 5A Stainless Centrifuges, 2 HP. Also Sharples #6.
2—De Laval Multi Clarifiers, 300 & 301.

FILTERS
1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
Shriver 30"x30" Iron P&F Filter Press.
10—Sperry and Shriver, 12", 18", 24", 30", 36" iron Filter Presses, also disc types.
Sweetland & Oliver Vac. Filters.

KETTLES AND TANKS
Dopp 350 gal. Agit. Jack Cl Vac Kettle.
450 gal. closed agit. Steel Kettle.
2—Impreg. Units 30" & 36" dia., complete.
100 gal. Jack. Impregnating Kettle
2—Autoclaves 1 gal & 15 gals., agit.
500 & 1,000 gal. closed Jack. Steel Kettles.
2300 gal. vert. agit. Jack. Steel Kettle.
8—Jack Kettles, 50 to 2500 gals.
1—250 gal Lead lined Kettle.
5—American Tool 300 gal. Churns.
1—250 gal. Jacketed Copper Kettle.
Stainless, alum., copper. Glass lined, lead lined and steel kettles and tanks.
New Stainless Tanks built to order.
Copper & Stainless Varnish Kettles.

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Patterson Pebble Mills, 6'x8', 6'x5', 30"x42".
Abbe 24"x33" & 30"x36". Jar Mills.
Abbe 25 gal. steel encased Jar Mill.
#1 Raymond Autom. Pulverizer, 20 HP.
1—#00 Raymond Mill 30 H.P., complete.
2—#0000 Raymond Mills
Williams #3 & 2XX heavy duty Hammer Mills.
Williams 5 Roll Super Titan Roller Mill.
Ball & Jewell #1 Rotary Cutter.
Buchanan 12"x12" Jaw Crusher.
Hammer Mills & Pulverizers, to 50 HP.
1—Sturtevant 42" Rock Emery Mill.
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9"x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
1—9"x24" 1 Pr. High Steel Roller Mill
Houchin 18"x30" 4 Roll Granite Stone Mills.
2—U S & Premier 1½ H.P Colloid Mills.

MIXERS, SIFTERS & SCREENS
Baker Perkins double arm Mixers, 100, 50 & 9 gal. Also single arm Mixers.
Century 40 & 80 qt. vert. 4 speed Mixer.
Tyler 3'x5' Vibratory 2 deck Screen.
Patterson 3½' dia. Stainless Conical Blender.
1—Master Drum type 1000# Blender.
Day 1000# Steel Powder Mixer M.D.
10—Dry Powder Mixers, 50 to 3,000 #.
4—Day 2½, 8, 15 & 40 gal. Pony Mixers.
1—Ross type 150 gal. change Can Mixer.
15—Portable Elec. Mixers. ¼ to 3 HP.
6—Lead and Paste Mixers, to 150 gals.

MISC. AND SPECIALS
Stokes #280, 4" dia. Preform Machine.
Sperry 36" sq. Iron Filter Presses.
Anderson & French Oil Expellers.
Sly Dust Collector, 942 sq. ft., complete.
3—Buffalo Horiz. Vac. Pumps, 5 H.P.
5—Stokes & Colton Rotary and Single Punch Tablet Machines, ⅛ to 4".
Kane 2 H.P. Gas Boilers, 200# pressure.
1—Knapp Model S Can Labeler M.D.
3—Stokes and Day Powder Fillers.
Samco Jr. Vac. liquid Filling Machine.
Filling Machines & Labelers.
Pneumatic Scale Automatic Capper.
1—Howe Mogul barrel and bag packers.
2—Revolving Pans, 30" & 36" dia.
1—Gould 75 HP 3 stage centrif. Pump.
2—Worth 12"x12"x12" Vac. Pumps
8—Devine, Buffalo, Stokes Vac. Pumps.
Soap Machinery for Toilet, Laundry, etc. Centrif., Rotary, Duplex & Triplex Pumps, Boilers—Gas, Oil & Coal.
Conveyors & elevators, Scales, etc.

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STEIN EQUIP'T CO.
107 EIGHTH ST., BROOKLYN 15, N. Y.
STERLING 8-1944

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BUSINESS OPPORTUNITIES

French manufacturer, long-experienced in manufacture of synthetic waxes, stearates, metallic dryers, seeks to rent suitable plant with steam. Will also consider partnership with already established manufacturer. OPD 396.

EQUIPMENT OFFERED

For Sale: Several Jacketed Cast Iron mixers —capacity 250 lbs. to 2,000 lbs. One 1¼" motor drive Viking Pump. Good working condition. Reasonably priced. OPD 395.

High Speed Roller Mills, Medium Speed Roller Mills, Pebble Mills, Pony Mixers, Change Can Mixers. We carry a complete line of rebuilt and guaranteed machinery. Write for list. Irving Barcan Co. 249 Orient Avenue, Jersey City 5, N. J.

2—Groen 150 gallon Stainless Steel Jacketed Kettles, 100# jacket pressure, excellent condition; priced attractively. Wolf-Perry Machinery Company, 293 Frelinghuysen Ave., Newark, N.J.

For Sale:—Vacuum Shelf Dryer, 20 Shelves 42 x 42—Condenser & Pump; Complete Impregnator 24" x 32"; Abbe 5' x 6' Pebble Mill w/20 H.P. Motor; 6' S.S. Filter; 2100 Gal. S.S. Tank w/coil. The Machinery & Equipment Corp., 533 West Broadway, New York 12, N.Y. GRamercy 5-6680.

EQUIPMENT WANTED

Wanted: Fully automatic Stokes and Smith powder filler, auger type with scale, needed for 13 oz. rectangular can for filling talcum powder. Give full particulars. OPD 397.

Pebble Mill 3'x4' capacity about 100 gals. OPD 393.

Wanted—Send us your list of surplus or idle machinery. Interested in large capacity dry & wet Mixers Rotary and batch Dryers. Pulverizers all kinds of Jacketed Kettles. Distilling apparatus Filling and Packaging Units, Stainless steel and non-corrosive Tanks and Vessels For 36 years we have been buying from single items to complete plants. Consolidated Products Co., Inc., 60 Bloomfield Street, Hoboken, New Jersey. HO 3-4425., N. Y. Phone BA 7-0600

Chemical Equipment wanted for defense plant work including autoclave centrifuges, dryers, filters, kettles, mixers, pulverizers and tanks. Also interested in set-up plants, now operating or idle. Give full particulars in first letter for consideration. OPD 377.

Pilot Plant and full scale chemical plant equipment required for large expansion program. Kettles, columns, heat exchangers, tanks, mixers, dryers, centrifuges, pumps, filters, screens, pulverizers, etc. Stainless Steel alloy equipment preferred. Complete plants given immediate study. OPD 378.

POSITIONS WANTED

Research Chemist, age 46, proficient in experimentation, desires research duty with small firm that will permit some independent project exploration towards the manufacture of products under profit participation. OPD 394.

REPRESENTATION OFFERED

Importer of low-priced synthetic waxes of the highest quality seeks selling organizations with following among manufacturers of polishes, carbon paper, wax paper, and other users of wax. OPD 398.

SALESMEN WANTED

Salesmen calling on users of Propylene Glycol, Vanillin, Ethyl Vanillin, Benzoate Soda, Essential Oils. Sideline. Liberal commission. REctor 2-1152. OPD 386.

SERVICES OFFERED

Steel Test panels reclaimed for $3.35 per hundred up to size 6x12 inches. Your panels returned free of rust and in excellent condition for use without sanding. Satisfaction unconditionally guaranteed. The Makit Company, Box 146 Station B. Toledo 6, Ohio.

Farming Goal Pictured

—Continued from page 5

ment of some 8,000,000 acres from cultivation and into grass.

Turning to the lack of water, which he termed another limiting factor in our agriculture, the secretary reported, "In some areas water is already the greatest limiting factor not only in agricultural development but for industry as well. Some communities in the south and west, I understand, are coming close to the limits of their growth—they are now using close to the maximum of their available water resources."

To combat the menace of insufficient water supplies, the Soil Conservation Service is carrying out a new watershed program, he indicated. "Work is under way on some sixty demonstration projects," he said, "and these are all scheduled to be completed within five years. We have urged that this work be not only continued, but increased. We can have abundance that is almost limitless—and a prosperity for agriculture that exceeds our fondest expectations."

FTC Chairman Urges

—Continued from page 4

grated compliance program, "including as a first step a systematic and selective review of some 4,000 cease and desist orders, 8,000 stipulation-agreements to cease and desist, and 2,000 trade practice rules"; (2) entered into a "working agreement" with the Food and Drug Administration in order to correlate more effectively the work of the two agencies and to prevent overlapping activities and duplication of effect; (3) undertaken a program to improve the initial decisions of its hearing examiners and those of the commission itself, and (4) revised the rules of practice to encourage more widespread use of the commission's consent settlement procedure.

"Gradually, case by case," the FTC chief said, "we are reverting to the role congress intended us to perform. The commission was established to supplement the work of the Department of Justice and the courts under the Sherman act. It was meant to practice preventive law through administrative and regulatory activities as well as by the initiation and conduct of adversary proceedings. The job of prosecutor was vested primarily in the Department of Justice."

Trade Briefs

Davis Rogers, Inc., has purchased an industrial building at 3144 Bellevue road, Toledo, Ohio.

Bakelite Company, a division of Union Carbide & Carbon Corporation, New York, has started a monthly publication, "Bakelite Molding News."

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HAMMER MILLS — Wms. 8x14 & 24x30 w/125 H.P. motor.
PLASTICS LAB.—Read 6 qt Sigma-mixer—Extruders Hyd. Presses—Tensile Tester.
FORK LIFT TRUCKS—7500# cap. Hyster—New engines. Pneumatic tires.
NASH VACUUM PUMPS—AL & MD 673, MD 623/20 HP.
NEW DRY MIXERS—100-200-600 pound capacity Steel Spiral — Center discharge.
PEBBLE MILLS—100—235 (1 new) 640—2,000 gal.—motor drives—Lab. jars.
MIXER—W&P double Sigma blade—80 gals. Simpson 1½—Lancaster EAG4.
CENTRIFUGE — 40" perforated steel 48" Rubber perf.
FEEDER—Jeffrey Waytrol #118—like new.
PUMPS—1" to 8" centrifugals, Rubber—Stainless—C.I.
MILLS HARDINGE—3'x8"—6'x22" & 7'x48" pebble.
ROTARY DRYERS—4x20—5½x45, 6x60.

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We are a New York company, engaged in the manufacture and export of flavoring extracts and allied products, and are desirous of expanding our activities into the domestic market. We feel that this can best be accomplished through the purchase of a successful company in this field. A merger would be considered. We will consider only a company with a good record of earnings and favorable prospects for the future Box 392—Oil, Paint and Drug Reporter, 30 Church Street, New York 7, N. Y.

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NEW AND GOOD-AS-NEW EQUIPMENT
#316 Stainless Steel Tanks, new 100, 200 & 360 gal.
1—Stainless Tank #430 Chrome, vert. 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—Day Mixer, steam jacketed, 50 gal. Sigma Blade.
1—Robbins Vibrex 3x6 Vibrating Screen, single deck.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
60—New Pressure Cookers, 18"x18" & 24"x28".
50—Pumps—steam and electric.
1—New Glaus Nash Centrifugal Pump, 150 gpm.
1—Jeffrey Vibrating Conveyor 15' lg. 12" wide.
1—Buflovak Jacketed Impregnating Tank 42"x52".
1—4x8 Sturtevant Jaw Crusher.
1—Ribbon type Mixer, steam jacketed.
2—New Ransome Rotating Drum Mixers 9' dia. x 11'6".
3—New Drum Rollers.
2—Nash Air Compressors, Type AL-623.
1—Manton Gaulin Stainless Homogenizer, 125 gph.
3—French Oil Mill Lard Cookers.
1—Shriver 18" Aluminum Filter 9-plates 8-frames.
15—Heat Exchangers (some stainless steel).
1—Kennedy-Van Saun Rotary Dryer, 4'x40'.
Davenport Rotary Steam Tube Dryer, 6'x36'.
1—Gruendler Hammer Mill, 10 H.P.—New.
2—Stainless Steel Steam Jacketed Readco Mixers.
1—#316 Stainless Reactor, 265 gals. cap., jacketed.
Abbe Pebble & Tube Mill, 5'x22'—Burr-Stone Lined.
1—Patterson Ball Mill, porcelain lined, 17"x27".
1—Patterson Ball Mill, 42x36, jacketed.
3—Dopp Kettles with agitators, 600 gal. cap.
45—Steel Tanks from 100 to 100,000 gals.
2—Large Steam Jacketed Horizontal Mixers.
Robinson Pulverizer #20, with 2 motors 10 HP each.
Robinson Ribbon Type Mixer, 30"x10'—like new.
6—Steam Jacketed Blackburn-Smith Filters.
2—Crystallizers—10' long.
2—500 ton Hydraulic Presses.
3—3,000 gal. Jacketed Kettles with Turbo Agitators.
1—300 gal. Double Arm Mixer—jacketed.
SPECIAL
1—Stedman 6-cage Mill #40.
1—#10 J. H. Day 300 gal. Sigma Blade Mixer.
H. LOEB & SON
4643 LANCASTER AVE. PHILADELPHIA 31, PA.

Advertisers Index

Alan Wood Steel Co. 52
All Chemicals Co. 74
Aluminum Import Corp. 21
American Agricultural Chemical Co. 1
American Flange & Mfg. Co., Inc. 8
American Potash & Chemical Corp. 28
Ansul Chemical Co. 48
Arapahoe Special Products, Inc. 59
Armour & Company 12

Baker, H. J., & Bro. 70
Baker, J. T., Chemical Co. 1, 54
Barclay Chemical Co. 74
Bareco Oil Co. 44
Barrett Division 50
Berkshire Chemicals, Inc. 61
Better Finishes & Coatings, Inc. 42
Bios Laboratories, Inc. 58
Bonewitz Laboratories, Inc. 41
Bower, Henry, Chemical Mfg. Co. 40
Bowman, Charles, & Co. 58
Brill Equipment Co. 71
Brode Corp., The 70

Capital City Products Co. 70
Carbide & Carbon Chemicals Co., Div. Union Carbide & Carbon Corp. 2, 46
Celanese Corp. of America, Chemical Div. 76
Chemical Divisions, Food Machinery & Chemical Corp. 37
Chemical & Process Machinery Co. 72
Chemical Service Corp. 74
Chemical Solvents, C. P., Inc. 76
Chemirad Corporation 48
Chemsol Incorporated 58
Church & Dwight Co. Inc. 38
Columbia Southern Chemical Corp. 38
Commercial Solvents Corp. 6
Connelly Inc. 52
Consolidated Chemical Industries, Inc. 42
Consolidated Products Co., Inc. 71
Consulting Chemists and Engineers 49
Continental Oil Co. 52
Cornwell Chemical Corp. 76
Coupe, Robert A. 43

Diamond Alkali Co. 42
Dicalite Division, Great Lakes Carbon Corp. 58
Distillation Products Industries, Div. of Eastman Kodak Co. 47
Dodge & Olcott, Inc. 63
Dorward & Sons Co. 48
Dow Chemical Co. 14
Dunkel, Paul A., & Co., Inc. 57
Du Pont de Nemours, E. I., & Co., Inc. 23, 46

Eastman Chemical Products, Inc. 17
Emery Industries, Inc. 65
Equipment Clearing House, Inc. 73
Esso Standard Oil Company 26

Fairmount Chemical Co., Inc. 53
Felton Chemical Co., Inc. 27
Fezandie & Sperrle 53
Fine Organics, Inc. 58
First Machinery Corp. 72
Florasynth Laboratories, Inc. 62
Fritzsche Brothers, Inc. 62

Gas Purifying Materials Co. 42
Gelb, R., & Sons, Inc. 73
General Biochemicals, Inc. 70
General Tire & Rubber Co. 40
Givaudan-Delawanna, Inc. 63
Glycerine Producers Association 20
Gray, William S., & Co. 1
Greeff, R. W., & Co. 38
Gross, A., & Company 69

Hardesty, W. C., Co. 69
Harshaw Chemical Co. 30
Heat and Power Co., Inc. 72
Hercules Powder Co. 68
Heyden Chemical Corp. 57
Hoffmann-La Roche, Inc. 55
Horn, Jefferys & Co. 68
Hutchinson, D. W., & Co., Inc. 62

Indoil Chemical Co. 67
Industrial Raw Materials Corp. 76
Innis, Speiden & Co. 41
International Minerals & Chemical Corp. 13

Jefferson Chemical Co. 18

Koppers Company, Inc. 51

Lawler Company 74
Lever Brothers Company 46
Loeb, H., & Son 74
Loeb Equipment Supply Co. 73
Lucidol Corp. 47

Machinery & Equipment Corp. 73
Magnus, Mabee & Reynard, Inc. 62
Mallinckrodt Chemical Works 19, 66
Mantrose Corporation 66
Marine Magnesium Products Corp. 59
Maschmeijer, A., Jr. 64
Matheson Coleman & Bell, Inc. 47
Mathieson Chemical Corporation 39
McKesson & Robbins, Inc. 57
McLaughlin-Gormley-King Co. 44
Meer Corporation 56
Mefford Chemical Co. 61
Metalsalts Corporation 61
Michigan Chemical Corp. 15
Miel, George A., Co., Inc. 70
Mondial Trading Corp. 42, 58
Monsanto Chemical Co. 61, 67
Mutual Chemical Co. of America 53

National Casein 67
National Chlorophyll & Chemical Co. 59
National Milk Sugar Co. 58
National Rosin Oil Products, Inc. 66
Neville Chemical Company 48
Newman Tallow & Soap Machinery Co. 73
Niagara Alkali Company 31
Nitrogen Division Allied Chemical & Dye Corp. 40, 42, 47
Norda Essential Oil & Chemical Co., Inc. 24

Ohio-Apex, Inc. 67
Orbis Products Corp. 64
Oronite Chemical Co. 41

Pacific Coast Borax Co. 1
Parsons-Plymouth, Inc., M. W. 67
Penick, S. B., & Co. 56
Pennsylvania Industrial Chem. Corp. 65
Pennsylvania Refining Company 44
Perry Equipment Corp. 72
Petrolite Corp., Ltd., Wax Division 35
Pfaltz & Bauer, Inc. 61
Philipp Brothers Chemicals, Inc. 66
Pittsburgh Coke & Chemical Co. 68
Plant Machinery Corp. 72
Polak & Schwarz, Inc. 64
Potash Co. of America 44
Prior Chemical Corp. 1
Process Plant Service 73
Procter & Gamble 48
Publicker Industries, Inc. 10
Purocaine, Inc. 59

Quaker State Oil Refining Corp. 44

Raney Catalyst Co. 44
Read, Chas. L., & Co., Inc. 43
Reichhold Chemicals, Inc. 22
Republic Chemical Corp. 42
Republic Steel Corp. 51
Richmond Mica Corp. 66
River Plate Corp., The 61
Rohm & Haas Co. 16
Rosenthal Bercow Co., Inc. 76
Roure-Dupont, Inc. 64

Sergeant, E. M., Pulp & Chemical Co. 42
Sharples Chemicals Inc. 1
Sheffield Chemical Co., Inc. 67
Shell Chemical Corp. 11
Shell Oil Co., Inc. 45
Sherwood Refining Co. 45
Sinclair Chemicals, Inc. 34
Snell, Foster D., Inc. 75
Solvay Process Div., Allied Chemical & Dye Corp. 29
Spencer Chemical Co. 41
Stauffer Chemical Co. 39
Stein Equipment Co. 73
Sterwin Chemicals, Inc. 64
Strohmeyer & Arpe Co. 69
Sunkist Growers, Inc. 25
Synthetic Products Co. 68

Tar Residuals, Inc. 52
Terra Chemicals, Inc. 58
Thurston & Braidich 59
Todd, A. M., Co. 62
Tragacanth Importing Corp. 58
Truland Chemical & Engineering Co. 74
Turner, Joseph, & Co. 42

Ungerer & Company 63
Union Carbide & Carbon Corp., Carbide & Carbon Chemicals Co. Div. 2, 46
Union Standard Equipment Co. 71
United States Potash Co., Inc. 43
Universal Manufacturing Co. 48

van Ameringen-Haebler, Inc. 63
Verona Chemical Co. 64

Waltrow & Company 68
Warwick Wax Company, Inc. 32, 33
Westvaco Chemical Div. 40
Will & Baumer Candle Co., Inc. 69
Williams, C. K., & Co. 75
Wilner Wood Products Co. 66
Wirz, A. H., Inc. 53
Wyandotte Chemicals Corp. 43

Young, The J. S., Company 53

Zinsser & Co., Inc. 53

Dairy Import Regulation Changes Made by USDA

Issuance of import regulation No. 1, revision 1, which incorporates a number of changes in procedures governing licensing of imports of certain dairy products in accordance with the President's proclamation of June 8, 1953, was announced last week by the Department of Agriculture. The revised regulation is effective July 1. While the revision changes some of the methods and procedures of administering the import quotas, it does not change the total quotas themselves.

Importers who were issued licenses for the 1953-54 fiscal year to import dried cream, dried whole milk, dried buttermilk, malted milk or dried skimmed milk are not required to apply for licenses to import the same commodities during subsequent licensing years. Persons who desire to import any of these commodities for the 1954-55 licensing year and have not previously made application, must apply not later than July 31, 1954, for a license on the basis of their imports during the specified base period.

The total annual import quotas continued unchanged for the licensing year for the dried dairy products are:—Dried whole milk, 7,000 pounds; dried buttermilk, 496,000 pounds; dried cream, 500 pounds, and dried skimmed milk, 1,807,000 pounds.

Philadelphia PVLA Picks President, Fills Balance of Slate for 1954-1955

Frank M. McNerney, formerly vice-president, has been elected to the presidency of the Philadelphia Paint and Varnish Production Club for 1954-55, to succeed P. J. Whiteway, jr.

The balance of the slate, unanimously approved and elected was:—Vice-president, D. T. Nivin; secretary, E. G. Fleming; treasurer, J. P. Snyder; assistant treasurer, J. Sandeman; council represenative, Mr. Whiteway, and members-at-large on the executive committee, W. Bayer and J. F. Vozzella.

Memo from:
Dick Moore of Foster D. Snell, Inc.

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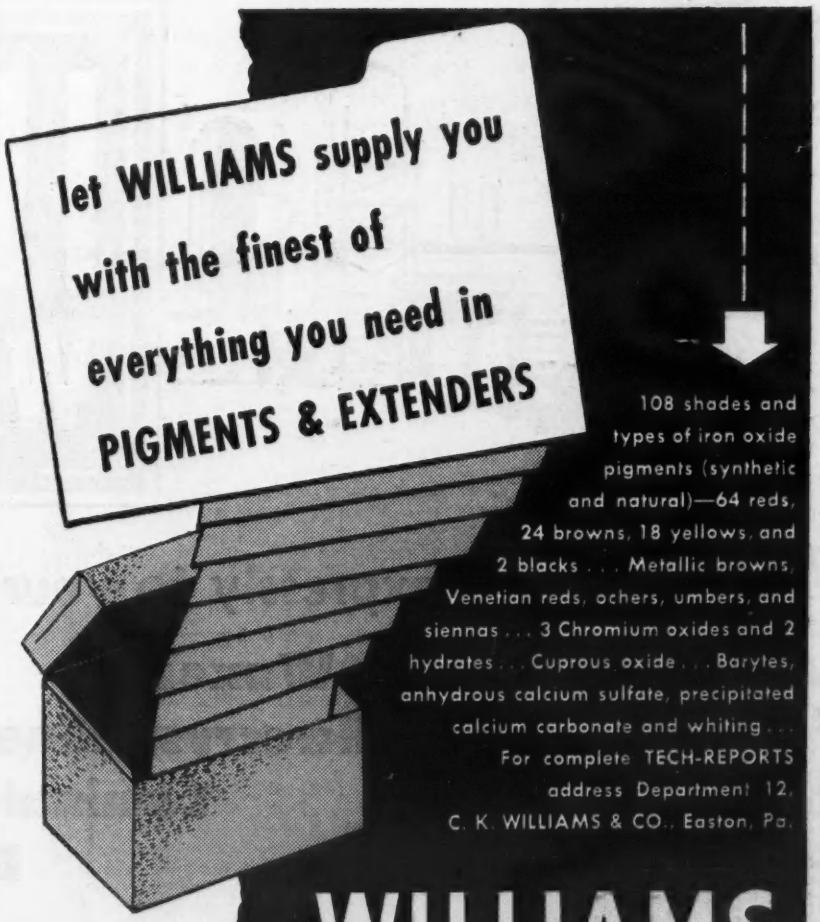
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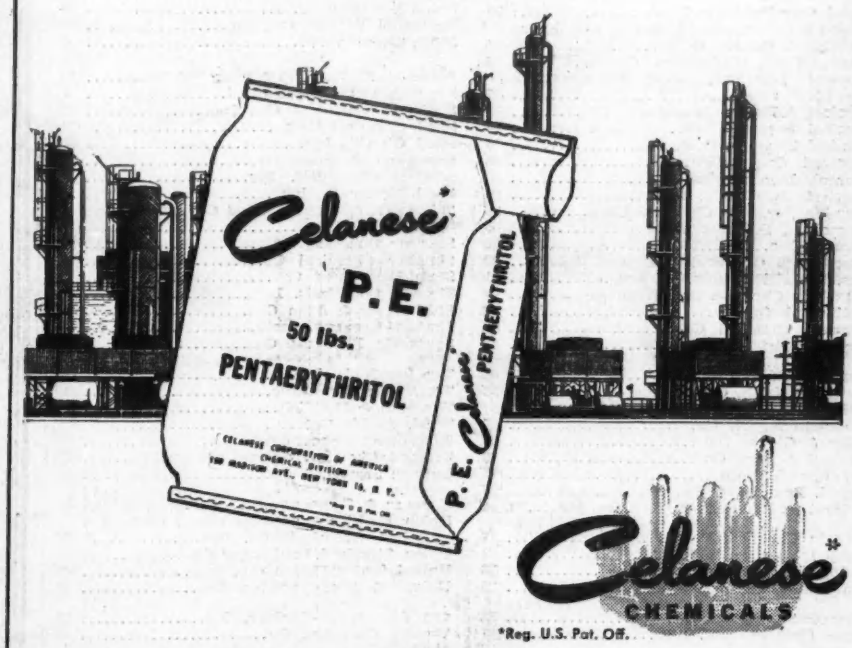

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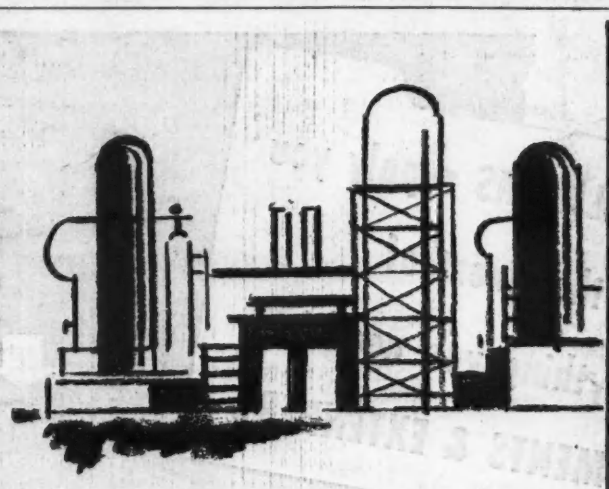

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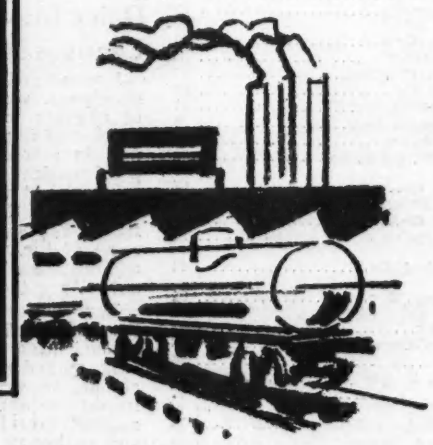

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